

1. **Supplementary table S1:** Geographic location: **SOUTH AMERICA**. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid range	Mutation	Accession number
74	N74K	QJA41641.1
75	G75V	QNV50118.1
119	I119V	QNV49878.1, QNV50082.1, QNV50202.1, QNV50286.1, QNV50346.1
197	I197V	QKY74846
256	S256F	QNV50478
299	T299I	QNV50418.1
309	E309Q	QNV50310.1
<b>345</b>	<b>T345I</b>	<b>QNV49494.1</b>
<b>437</b>	<b>N437S</b>	<b>QNV49926.1</b>
<b>468</b>	<b>I468T</b>	<b>QNV49530.1</b>
614	D614G	QNV49470.1, QNV49482.1, QNV49494.1, QNV49518.1, QNV49506.1, QNC49530.1, QNV49542.1, QNV49554.1, QNV49566.1, QNV49578.1, QNV49590.1, QNV49638.1, QNV49686.1, QNV49698.1, QNV49710.1, QNV49734.1, QNV49746.1, QNV49758.1, QNV49770.1, QNV49782.1, QNV49794.1, QNV49806.1, QNV49818.1, QNV49842.1, QNV49854.1, QNV49866.1, QNV49818.1, QNV49902.1, QNV49914.1, QNV49926.1, QNV49938.1, QNV49950.1, QNV49962.1, QNV49974.1, QNV49986.1, QNV49998.1, QNV50010.1, QNV50034.1, QNV50046.1, QNV50058.1, QNV50070.1, QNV50082.1, QNV50094.1, QNV50106.1, QNV50118.1, QNV50130.1, QNV50142.1, QNV50154.1, QNV50166.1, QNV50178.1, QNV50190.1, QNV50202.1, QNV50214.1, QNV50226.1, QNV50238.1, QNV50250.1, QNV50274.1, QNV50286.1, QNV50298.1, QNV50310.1, QNV50322.1, QNV50334.1, QNV50346.1, QNV50358.1, QNV50370.1, QNV50382.1, QNV50394.1, QNV50406.1, QNV50418.1, QNV50430.1, QNV50442.1, QNV50454.1, QNV50466.1, QNV50478.1, QNV50490.1, QNU13281.1, QNH88895.1, QNH88907.1, QNH88919.1, QNH88931.1, QNH88943.1, QMT98140.1, QMU25995.1, QMT97861.1, QMT97873.1, QMT27577.1, QMT27590.1, QMT27604.1, QMT27616.1, QMT29009.1, QMT29085.1, QMT22611.1, QLF80216.1, QLF80256.1, QLD32028.1, QKY74786.1, QKY74798.1, QKY74834.1, QKY74858.1, QKY74882.1, QKY74894.1, QKY74906.1, QJT73046.1, QIS60288.1
652	G652R	QNH88883.1

721	S721V	QNH88883.1
731	M731I	QNV50358.1
780	E780D	QNV50238.1
903	A903S	QNV50370.1
1058	H1058Q	QNH88907.1
1063	L1063F	QNV50442.1
1078	A1078S	QNV50142.1
1083	H1083R	QNV49926.1
1174	A1174V	QNV50022.1
1176	V1176F	QLF80256.1
1191	K1191N	QNH88919.1
1229	M1229I	QNV50094.1
1252	S1252F	QNV50202.1

#### List of mutations

List of mutations	Occurrence of mutations (Number of isolates that showed the mutation)
G75V	1
N74K	1
S256F	1
I197V	1
T345I	1
E309Q	1
T299I	1
I468T	1
N437S	1
M731I	1
S721V	1
G652R	1
A903S	1
E780D	1
H1083R	1
A1078S	1
L1063F	1
H1058Q	1
A1174V	1
M1229I	1
S1252F	1
K1191N	1
V1176F	1
I119V	5
D614G	104



1. **Supplementary table S2:** Geographic location: **AFRICA**. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid range	Mutation	Accession number
5	L5F	QNE11768.1, QKX64992.1, QKX65028.1
12	S12F	QNQ74632.1, QKR84285.1
29	T29I	QJX45356.1
49	H49Y	QLQ87588.1
70	V70F	QLQ87564.1
242	L242F	QKX65076.1
288	A288T	QJX45344.1
314	Q314R	QJX45344.1
<b>408</b>	<b>R408I</b>	<b>QKT21014.1, QJY78056.1</b>
<b>522</b>	<b>A522V</b>	<b>QNN90052.1, QNN90064.1</b>
570	A570S	QKR84321.1
614	D614G	QNT08433.1, QNT08445.1, QNR60440.1, QNR60452.1, QNR60464.1, QNR60476.1, QNR60488.1, QNR60500.1, QNR60512.1, QNR60524.1, QNR60536.1, QNR60548.1, QNR60560.1, QNR60572.1, QNR60584.1, QNR60596.1, QNR60608.1, QNR60620.1, QNR60632.1, QNR60644.1, QNR60656.1, QNR60668.1, QNR60680.1, QNR60692.1, QNR60704.1, QNR60716.1, QNR60728.1, QNR60740.1, QNR60752.1, QNR60764.1, QNR60776.1, QNR60788.1, QNR60800.1, QNR60812.1, QNR60824.1, QNR60836.1, QNR60848.1, QNR60860.1, QNR60872.1, QNR60884.1, QNR60896.1, QNR60908.1, QNR60920.1, QNR60932.1, QNR60944.1, QNR60956.1, QNR60968.1, QNR60980.1, QNR60992.1, QNR61004.1, QNR61016.1, QNR61028.1, QNR61040.1, QNR61052.1, QNR61064.1, QNR61076.1, QNR61088.1, QNR61100.1, QNR61112.1, QNR61124.1, QNR61136.1, QNR61148.1, QNR61160.1, QNR61172.1, QNR61184.1, QNR61196.1, QNR61208.1, QNR61220.1, QNR61232.1, QNR61244.1, QNR61256.1, QNR61268.1, QNR61280.1, QNR61292.1, QNR61304.1, QNR61316.1, QNR61328.1, QNR61340.1, QNR61352.1, QNR61364.1, QNR61376.1, QNR61388.1, QNR61400.1, QNR61412.1, QNR61424.1, QNR61436.1, QNR61448.1, QNR61352.1, QNR61364.1, QNR61376.1, QNR61388.1, QNR61400.1, QNR61412.1, QNR61424.1, QNR61436.1, QNR61448.1, QNR61460.1, QNR61472.1, QNR61484.1, QNR61496.1, QNQ74620.1, QNQ74632.1, QNQ16901.1, QNQ16913.1, QNQ16925.1, QNP14665.1, QNP14677.1, QNN90040.1, QNN90052.1, QNN90064.1, QNN90088.1, QNN90100.1, QNN90112.1, QNM81286.1, QNM81298.1, QNM81310.1, QNM81322.1, QNM81334.1, QNM81346.1, QNM81358.1, QNM81370.1, QNM81382.1, QNM81394.1, QNM81406.1, QNM81418.1, QNM81430.1, QNM81442.1, QNM81454.1, QNM81466.1, QNM81478.1, QNM81490.1, QNM81502.1, QNM81514.1, QNM81526.1, QNM81538.1, QNM81550.1, QNM81562.1, QNM81574.1, QNM81586.1, QNM81598.1,

		QNM81610.1, QNM81622.1, QNM81634.1, QNM81646.1, QNM81658.1, QNM81670.1, QNH87121.1, QNH87133.1, QNH87145.1, QNH87157.1, QNH87169.1, QNH87181.1, QNH87193.1, QNH87205.1, QNH87217.1, QNH87229.1, QNH87241.1, QNH87253.1, QNH87265.1, QNH87277.1, QNH87289.1, QNH87301.1, QNG97352.1, QNG97364.1, QNE11529.1, QNE11541.1, QNE11828.1, QNE11840.1, QNE11888.1, QMX85025.1, QMX85037.1, QMX85061.1, QMX85085.1, QMX85121.1, QMP97374.1, QMP97386.1, QLQ87540.1, QLQ87588.1, QLQ87648.1, QLQ87672.1, QLQ34367.1, QLL26123.1, QLJ83509.1, QLE00003.1, QLE10629.1, QLE10641.1, QLE10668.1, QLE10921.1, QLE11077.1, QLE11089.1, QLF67497.1, QKS74794.1, QKS74806.1, QKT20942.1, QKT20954.1, QKT20966.1, QKT20978.1, QKT20990.1, QKT21002.1, QKT21014.1, QKT21026.1, QKT21038.1, QKT21050.1, QKT21062.1, QKQ63927.1, QKR83985.1, QKR84225.1, QKR84237.1, QKR84249.1, QKR8426.1, QKR84273.1, QKR84285.1, QKR84297.1, QKR84309.1, QKR84321.1, QKR84333.1, QKR84345.1, QKR84357.1, QKR84369.1, QKR84381.1, QKR84393.1, QKS42579.1, QKS42591.1, QKS42609.1, QKS42621.1, QKS42633.1, QKS66868.1, QKS66892.1, QKS66904.1, QKS66916.1, QKS66928.1, QKW95051.1, QKX65004.1, QKX65016.1, QKX65028.1, QKX65040.1, QKX65052.1, QKX65064.1, QKS66880.1, QKX96275.1, QKX65076.1, QKX65088.1, QKX65100.1, QJY78020.1, QJY78032.1, QJY78044.1, QJY78056.1, QJY78068.1, QJY78080.1, QJY78092.1, QJY78104.1, QJY78116.1, QJY78128.1, QJY78140.1, QJY78152.1, QJY78164.1, QJY78176.1, QJZ28114.1, QJZ28126.1, QJZ28347.1, QJZ28359.1, QJX45344.1, QJX45356.1, QJX45368.1, QJX45380.1, QKX12863.1, QKI36913.1, QKD20860.1, QKG82981.1, QIZ15537.1
640	S640A	QKW95051.1
653	A653V	QJZ28114.1
677	Q677H	QNQ74632.1, QNN90112.1, QKR84225.1, QKR84285.1, QKS42609.1, QKS66892.1, QKS66904.1, QKS66928.1, QKX65040.1, QKX65100.1,
805	I805M	QNE11864.1
812	P812L	QLQ87540.1
813	S813I	QNQ74632.1
1122	V1122L	QNE11768.1
1144	E1144Q	QMX85049.1
INCOMPLETE	INCOMPLETE	QKX64992.1

### List of mutations

List of mutations	Occurrence of mutations (Number of isolates that showed the mutation)
V70F	1
H49Y	1
T29I	1
L242F	1
A288T	1
Q314R	1
A570S	1
S640A	1
INCOMPLETE	1
A653V	1
S813I	1
I805M	1
P812L	1
V1122L	1
E1144Q	1
S12F	2
R408I	2
A522V	2
L5F	3
Q677H	10
D614G	270

## EUROPE

**Supplementary table S3:** Geographic location: **EUROPE**. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid range	Mutation	Accession number
5	L5F	QKE43691.1, QJT72134.1, QJT72410.1, QJT72722.1,
22	T22I	QKM76366.1
49	H49Y	QNT10132.1, QNC69794.1, QKI37323.1, QKF30850.1, QHU79173.2
83	V83F	QNT10120.1
115	Q115R	QJD23141.1
153	M153I	QJT72086.1
176	L176FQ	QLJ53548.1
186	F186S	QLJ53608.1
188	N188D	QJS53410.1
197	I197V	QJS53494.1, QIZ16559.1
213	V213L	QKJ68364.1
222	A222V	QNN88034.1, QNN88046.1, QNN88058.1
240	T240I	QJT73010.1
247	S247R	QLJ57659.1
254	S254F	QKM76906.1, QJW69235.1,
261	G261D	QJS39543.1, QJS39555.1, QJS39591.1, QJS39603.1 (Host: Mink)
299	T299I	QNG39480.1
<b>367</b>	<b>V367F</b>	<b>QJS39627.1 (Host: Mink)</b>
<b>372</b>	<b>A372V</b>	<b>QNC69806.1</b>
<b>379</b>	<b>C379F</b>	<b>QJT72386.1</b>
<b>382</b>	<b>V382E</b>	<b>QJT72806.1</b>
<b>393</b>	<b>T393P</b>	<b>QJS54106.1</b>
<b>453</b>	<b>Y453F</b>	<b>QJS39543.1, QJS39555.1, QJS39579.1, QJS39591.1, QJS39603.1 (Host: mink)</b>
<b>486</b>	<b>F486L</b>	<b>QJS39567.1 (host: mink)</b>
<b>501</b>	<b>N501T</b>	<b>QJS39507.1 (host mink: mutation) 2020-04-29 - Netherlands</b>
553	T553N	QJT73034.1
558	K558R	QJC19455.1
572	T572I	QJT72470.1
611	L611F	QJT72278.1
614	D614G	QLJ57659.1, QLJ57671.1, QNT10036.1, QNT10048.1, QNT10060.1, QNT10072.1, QNT10084.1, QNT10096.1, QNT10108.1, QNT10120.1, QNT10132.1, QNT10144.1, QNT10156.1, QNT10168.1, QNT10180.1, QNT10192.1, QNN88034.1, QNN88046.1, QNN88058.1, QNN93027.1, QNN94958.1, QNO10666.1, QNO10690.1, QNO10726.1, QNO10738.1, QMU84825.1, QMU84837.1, QNJ45106.1, QNJ45118.1, QNJ45130.1, QNJ45142.1, QNJ45154.1, QNJ45166.1, QNJ45178.1, QNJ45190.1, QNJ45202.1, QNJ45214.1, QNJ45226.1, QNJ45238.1, QNI24996.1, QJU71765.1, QJW68968.1, QJW68986.1, QJW68998.1, QJW69010.1, QJW69022.1, QJW69034.1, QJW69046.1, QJW69058.1, QJW69070.1, QNE73229.1, QNG39480.1, QNC69770.1, QNC69782.1, QNC69794.1,

	<p>QNC69806.1, QNC69818.1, QNC69830.1, QNC69842.1, QMX896941.1, QLC48515.1, QLC48527.1, QLC48539.1, QLC48551.1, QLC48563.1, QLC48575.1, QLC48587.1, QLC48599.1, QLC48611.1, QLJ53536.1, QLJ53560.1, QLJ53572.1, QLJ53584.1, QLJ53596.1, QLJ53608.1, QLJ53620.1, QLJ84625.1, QLG96797.1, QLG97054.1, QLF78309.1, QLF78321.1, QLD29172.1, QLD29184.1, QLC77693.1, QLC77705.1, QLC48503.1, QLB38609.1, QKX47173.1, QKX47197.1, QKV26498.1, QKV28217.1, QKS67467.1, QKM76354.1, QKM76390.1, QKM76414.1, QKM76426.1, QKM76438.1, QKM76462.1, QKM76474.1, QKM76510.1, QKM76522.1, QKM76534.1, QKM76570.1, QKM76582.1, QKM76594.1, QKM76606.1, QKM76618.1, QKM76630.1, QKM76642.1, QKM76654.1, QKM76666.1, QKM76678.1, QKM76690.1, QKM76702.1, QKM76762.1, QKM76774.1, QKJ68340.1, QKJ68352.1, QKJ68364.1, QKJ68376.1, QKJ68388.1, QKJ68400.1, QKK12839.1, QKI37275.1, QKI37287.1, QKI37299.1, QKI37311.1, QKI37323.1, QKE49074.1, QKE32976.1, QKE43667.1, QKE43679.1, QKE43691.1, QKE43703.1, QKE43715.1, QKE43727.1, QKE45430.1, QKE10874.1, QKE10886.1, QKE10898.1, QKE10910.1, QKE10922.1, QKE10934.1, QKE10946.1, QKE10958.1, QKE10970.1, QKE10982.1, QKE10994.1, QKE11006.1, QKE11018.1, QKE11030.1, QKE11042.1, QJZ27921.1, QJZ28143.1, QJZ28155.1, QJZ28167.1, QJZ28179.1, QJZ28191.1, QJZ28203.1, QJZ28215.1, QJZ28227.1, QJZ28239.1, QJZ28251.1, QJZ28263.1, QJZ28275.1, QJZ28287.1, QJZ28299.1, QJZ28311.1, QJZ28323.1, QJZ28335.1, QJX45283.1, QJX45295.1, QJX45307.1, QJW69151.1, QJW69163.1, QJW69175.1, QJW69187.1, QJW69199.1, QJW69211.1, QJW69223.1, QJW69235.1, QJW69247.1, QJW69259.1, QJW69271.1, QJW69283.1, QJW69295.1, QJW69307.1, QJC19431.1, QJC19443.1, QJC19467.1, QJC19479.1, QJT72098.1, QJT72110.1, QJT72122.1, QJT72146.1, QJT72158.1, QJT72170.1, QJT72194.1, QJT72206.1, QJT72230.1, QJT72242.1, QJT72254.1, QJT72266.1, QJT72278.1, QJT72290.1, QJT72302.1, QJT72314.1, QJT72326.1, QJT72338.1, QJT72362.1, QJT72374.1, QJT72386.1, QJT72398.1, QJT72410.1, QJT72422.1, QJT72470.1, QJT72482.1, QJT72949.1, QJT72506.1, QJT72518.1, QJT72530.1, QJT72542.1, QJT72566.1, QJT72602.1, QJT72614.1, QJT72638.1, QJT72650.1, QJT72662.1, QJT72674.1, QJT72698.1, QJT72722.1, QJT72734.1, QJT72746.1, QJT72758.1, QJT722770.1, QJT72806.1, QJT72818.1, QJT72830.1, QJT72854.1, QJT72866.1, QJT72878.1, QJT72890.1, QJT72902.1, QJT72914.1, QJT72926.1, QJT72938.1, QJT72950.1, QJT72962.1, QJT72998.1, QJT73010.1, QJT73022.1, QJS53338.1, QJS53350.1, QJS53362.1, QJS53374.1, QJS53386.1, QJS53410.1, QJS53422.1, QJS53434.1, QJS53446.1, QJS53458.1, QJS53470.1, QJS53506.1, QJS53530.1, QJS53542.1, QJS53566.1, QJS53578.1, QJS53590.1, QJS53602.1, QJS53614.1, QJS53626.1, QJS53638.1, QJS53650.1, QJS53662.1, QJS53710.1, QJS53746.1, QJS53758.1, QJS53770.1, QJS53782.1, QJS53794.1, QJS53806.1, QJS53818.1, QJS53830.1, QJS53842.1, QJS53854.1, QJS53866.1, QJS53878.1, QJS53890.1, QJS53902.1, QJS53914.1, QJS53962.1, QJS53974.1, QJS53986.1, QJS53998.1, QJS54010.1, QJS54034.1, QJS54046.1, QJS54058.1, QJS54070.1, QJS54094.1, QJS54106.1, QJS54118.1, QJS54130.1, QJS54154.1, QJS54166.1, QJS54178.1, QJS54190.1, QJS54202.1, QJS54202.1, QJS54226.1,</p>
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		QJS54238.1, QJS54250.1, QJS54262.1, QJS54274.1, QJS54286.1, QJS54298.1, QJS54310.1, QJS54322.1, QJS54334.1, QJS54346.1, QJS54358.1, QJS54394.1, QJS54406.1, QJS54418.1, QJS54454.1, QJS54478.1, QJS39496.1, QJS39507.1, QJS39519.1, QJS39531.1, QJS39615.1, QJS39627.1, QJR83773.1, QIX07431.1, QJF11995.1, QJD23141.1, QJD23153.1, QJD23165.1, QJD23177.1, QJD23189.1, QJD23201.1, QJD23213.1, QJC21005.1, QJC21017.1, QIZ16535.1, QIZ16547.1, QIZ16571.1, QIX12148.2, QIU78707.1, QIU78719.1, QIU78779.1, QIQ08820.1
676	T676I	QJT72614.1, QJT72902.1
686	S686G	QLI84625.1
740	M740I	QJZ28203.1
769	G769V	QJS54286.1
789	Y789D	QJS53386.1
839	D839Y	QLJ53608.1,
845	A845S	QJT72794.1, QJT72710.1, QJT72626.1, QJT72554.1, QJT72350.1, QJT72182.1, QJT72086.1
884	S884F	QNC69830.1
892	A892S	QJS53578.1
1020	A1020V	QJT72242.1
1072	E1072Q	QNC69770.1
1101	H1101Y	QJS53506.1
1122	V1122L	QJS53398.1
1162	1162L	QJT72902.1, QJT72614.1
1163	D1163Y	QNN88058.1
1167	G1167V	QNN88058.1
1191	K1191N	QJS53506.1
1229	M1229I	QJD23153.1
1260	D1260H	QLB38609.1
1260	D1260N	QJZ28203.1
1263	P1263L	QJT72386.1, QJS53818.1, QJS54334.1, QJS54346.1

#### List of mutations

List of mutations	Occurrence of mutations (Number of isolates that showed the mutation)
V83F	1
T22I	1
Q115R	1
S247R	1
L176FQ	1
F186S	1
V213L	1
M153I	1
T240I	1
N188D	1

T299I	1
A372V	1
C379F	1
V382E	1
V367F	1 (host: mink)
T393P	1
N501T	1
F486L	1 (host:mink)
K558R	1
L611F	1
T572I	1
T553N	1
S686G	1
M740I	1
G769V	1
A892S	1
Y789D	1
D839Y	1
S884F	1
A1020V	1
H1101Y	1
V1122L	1
E1072Q	1
D1163Y	1
G1167V	1
D1260H	1
D1260N	1
K1191N	1
M1229I	1
S254F	2
I197V	2
T676I	2
P1162L	2
A222V	3
L5F	4
G261D	4 (host:mink)
P1263L	4
H49Y	5
Y453F	5
A845S	7
D614G	352

**Supplementary table S4.** Geographic location: **ASIA**. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid range	Mutation	Accession number
2	F2L	QJX44586.1
5	L5F	QNN88632.1, QNJ45482.1, QMU94920.1, QLH93119.1, QLH55707.1, QLF97735.1, QLE10813.1, QLE11017.1, QKO25806.1, QKI28601.1, QJY40469.1
7	L7S	QNN88166.1, QNN88178.1, QNN88202.1
8	L8V	QIT07011.1, QIT08268.1, QIT08280.1
12	S12F	QNJ45326.1, QNJ45350.1, QNJ45374.1, QNJ45386.1, QNJ45398.1, QNJ45422.1, QNJ45458.1, QNJ45506.1, QNJ45530.1, QNJ45542.1, QNJ45578.1, QLF98212.1, QLF98224.1
13	S13I	QJX44430.1
14	Q14H	QKO25614.1
22	T22I	QNR54356.1, QJQ84843.1
25	P25L	QKV49386.1, QKF95522.1
26	P26L	QLH56614.1, QKX47981.1,
27	A27V	QNN88274.1
28	Y28H	QJF77846.1
28	Y28N	QIA20044.1
29	T29A	QLK03503.1
35	G35V	QLH64779.1
38	Y38C	QLA46612.1
49	H49Y	QNB17665.1, QLH56626.1, QKO25770.1, QJD47718.1
50	S50L	QIU80913.1
54	L54F	QNN88130.1, QNN26420.1, QNN30860.1, QNN81492.1, QNN83662.1, QNN83674.1, QNL90896.1, QNL90908.1, QNL90920.1, QNL35842.1, QNL35854.1, QNL35914.1, QMU94872.1, QLY82514.1, QLQ87696.1, QLQ88104.1, QLR06759.1, QLR06896.1, QLR07160.1, QLR12237.1, QLR12273.1, QLR12297.1, QLR12321.1, QLR12333.1, QLR80400.1, QLI49709.1, QLI49769.1, QLI52069.1, QLH64827.1, QLH64839.1, QLH64863.1, QLH64877.1, QLH64889.1, QLH64929.1, QLH90042.1, QLH90078.1, QLH90103.1, QLH93187.1, QLH93214.1, QLF98095.1, QLF98107.1, QLF98131.1, QLF98155.1, QLF98167.1, QLF98200.1, QLF98236.1, QLF98289.1, QLA09688.1, QLA09700.1, QLA09712.1, QLA09724.1, QLA09736.1, QLA09748.1, QLA09760.1, QLA09772.1, QLA09834.1, QLA09846.1, QLA09858.1, QLA09882.1, QLA09906.1, QLA10128.1, QLA10140.1, QLA10152.1, QLA10164.1, QKY74640.1, QKY59953.1, QJR84513.1, QJT43728.1, QJX44562.1, QJX44478.1, QJY40493.1, QKI28577.1, QKI10472.1, QKJ84979.1, QKJ84943.1, QKV27575.1, QKV25969.1, QKY64640.1, QKY64614.1, QKY64360.1, QKY64346.1, QKY64330.1, QKY60237.1, QKY60264.1, QKY60225.1, QKY60213.1, QKY60201.1, QKY60177.1, QKY60133.1, QKY60097.1, QKY60073.1, QKY60025.1, QKY60001.1, QKY59977.1, QKV59965.1
59	F59S	QNN83674.1
67	A67S	QMU94956.1

67	A67V	QMS51191.1
68	I68R	QLI85677.1
74	N74K	QNV71204.1, QIO04367.1
75	G75V	QNL90872.1, QLF97795.1
76	T76I	QLH64941.1, QKO25770.1
78	R78M	QNO30923.1, QNL35986.1, QNL36010.1, QLQ87660.1, QLQ87684.1, QLH64815.1, QJY40517.1, QJW00315.1, QJW00339.1, QJW39868.1, QJW39880.1, QJW39892.1, QJW39928.1, QJW69139.1, QJT43704.1, QJT43716.1
86	F86S	QLA46612.1
95	T95I	QLF97735.1, QLE10813.1, QLE11017.1, QLA46612.1
96	E96G	QLA46612.1
97	K97Q	QLR12261.1
98	S98F	QNB17771.1, QLH55707.1
127	V127F	QKX47969.1
138	D138Y	QMU94920.1
138	D138H	QLH56673.1, QKO25758.1
146	H146Y	QNB48580.1, QMU94776.1, QMU94848.1
148	N148Y	QKE61684.1
151	S151G	QLA46612.1
152	W152L	QKV27551.1, QKV27587.1
153	M153I	QNL35974.1, QKQ30162.1
155	S155I	QLF98277.1, QLF98289.1
156	E156D	QLE10897.1, QJT43452.1
158	N158K	QLA46612.1
162	S162I	QJY40469.1
164	H164R	QND78273.1, QMS95041.1
172	S172F	QNL90884.1
173	Q173H	QKJ68737.1
177	M177I	QJW00291.1, QJW00303.1
181	G181A	QLH64791.1, QLH64803.1
187	N187K	QLA09870.1
190	R190S	QMS95041.1
199	G199R	QNR60416.1
211	N211Y	QLE10849.1, QKO25794.1
213	V213L	QMU94980.1
221	S221W	QHZ00379.1
233	I233V	QNL98469.1
248	Y248H	QLH55683.1
255	S255F	QLG77201.1, QLE10789.1, QKE61804.1
258	W258L	QLA10140.1, QLA10188.1
261	G261S	QLI49817.1
261	G261R	QKX47933.1

262	A262S	QKY60121.1
267	V267L	QMU94800.1
268	G268D	QMS95041.1
271	Q271R	QJC19491.1
292	A292V	QJD23249.1
293	L293M	QJD23249.1
294	D294I	QJD23249.1
295	P295H	QJD23249.1
296	L296F	QJD23249.1
297	S297W	QJD23249.1
301	C301F	QLH64889.1
<b>337</b>	<b>P337R</b>	<b>QMS95041.1</b>
<b>346</b>	<b>R346T</b>	<b>QNL35914.1</b>
<b>367</b>	<b>V367F</b>	<b>QKV49386.1, QKF95522.1, QKS67443.1, QJC20993.1</b>
<b>368</b>	<b>L368P</b>	<b>QMS95041.1</b>
<b>382</b>	<b>V382L</b>	<b>QMU94884.1</b>
<b>411</b>	<b>A411D</b>	<b>QMS95041.1</b>
<b>471</b>	<b>E471Q</b>	<b>QJX44562.1</b>
<b>477</b>	<b>S477N</b>	<b>QLR12405.1</b>
<b>488</b>	<b>C488R</b>	<b>QNR60009.1</b>
<b>491</b>	<b>P491L</b>	<b>QJD23249.1</b>
<b>506</b>	<b>Q506H</b>	<b>QKY60177.1</b>
<b>507</b>	<b>P507S</b>	<b>QKY60177.1</b>
<b>507</b>	<b>P507H</b>	<b>QKY60189.1</b>
<b>508</b>	<b>Y508N</b>	<b>QKY60177.1, QKY60189.1</b>
<b>518</b>	<b>L518I</b>	<b>QLE10753.1, QLE10825.1, QLE10873.1</b>
<b>519</b>	<b>H519Q</b>	<b>QJD23249.1</b>
<b>520</b>	<b>A520S</b>	<b>QMU94968.1</b>
<b>522</b>	<b>A522V</b>	<b>QNL36022.1, QNL36022.1, QNL36034.1, QNL36046.1, QNL36058.1, QNL36070.1, QNL36082.1, QNL36094.1, QNL36106.1, QNL36118.1, QNL36130.1, QNL36142.1, QNL36154.1, QNL36166.1, QNL36178.1, QNL36190.1, QNL36202.1, QNL36214.1, QNL36226.1, QNL36238.1, QNL36250.1, QNL36262.1, QNL36274.1, QNL36286.1, QNL36298.1, QNL36310.1, QNL36334.1, QNL36346.1</b>
570	A570V	QIO81885.1
572	T572I	QKQ30126.1, QKQ30186.1, QKJ68557.1, QKG91190.1, QKG91274.1, QKI128601.1, QJT43608.1, QJT43644.1, QJT43668.1
574	D574Y	QKX47945.1, QKJ68545.1
583	E583D	QNL90872.1, QNL98469.1, QNL35818.1, QNL35878.1, QLI49697.1, QLF97999.1, QKV25921.1, QKQ30078.1, QKQ30222.1, QKJ68545.1, QKJ68605.1, QJY40565.1, QJW00327.1, QJX44406.1, QJX44514.1, QJX44538.1
594	G594S	QLH55683.1
607	Q607L	QMS95041.1

613	Q613H	QNL35914.1, QKJ68497.1
614	D614G	QNV71168.1, QNV71180.1, QNV71192.1, QNV71204.1, QNV71216.1, QKM77204.1, QKM77216.1, QKM77228.1, QKM77240.1, QKM77252.1, QKM77264.1, QKM77276.1, QNO30923.1, QNO30935.1, QNN87974.1, QNN87986.1, QNN87998.1, QNN88010.1, QNN88022.1, QNN88070.1, QNN88082.1, QNN88094.1, QNN88106.1, QNN88118.1, QNN88130.1, QNN88142.1, QNN88154.1, QNN88166.1, QNN88178.1, QNN88190.1, QNN88202.1, QNN88214.1, QNN88226.1, QNN88238.1, QNN88250.1, QNN88262.1, QNN88274.1, QNN88286.1, QNN88298.1, QNN88553.1, QNN88565.1, QNN88577.1, QNN88632.1, QNN88664.1, QNN88656.1, QNN90028.1, QNN90124.1, QNN90137.1, QNN93015.1, QNN26336.1, QNN26348.1, QNN26360.1, QNN26372.1, QNN26384.1, QNN26396.1, QNN26408.1, QNN26420.1, QNN26432.1, QNN26444.1, QNN26456.1, QNN26468.1, QNN26480.1, QNN30836.1, QNN30860.1, QNN30872.1, QNN31196.1, QNN31208.1, QNN81332.1, QNN81492.1, QNN81504.1, QNN83662.1, QNN83674.1, QNL90836.1, QNL90848.1, QNL90860.1, QNL90872.1, QNL90884.1, QNL90896.1, QNL90908.1, QNL90920.1, QNL98445.1, QNL98457.1, QNL98469.1, QNL98481.1, QNL35818.1, QNL35830.1, QNL35842.1, QNL35854.1, QNL35866.1, QNL35878.1, QNL35890.1, QNL35902.1, QNL35914.1, QNL35938.1, QNL35950.1, QNL35962.1, QNL35974.1, QNL35986.1, QNL35998.1, QNL36010.1, QNL36022.1, QNL36034.1, QNL36046.1, QNL36070.1, QNL36058.1, QNL36082.1, QNL36094.1, QNL36106.1, QNL36118.1, QNL36130.1, QNL36142.1, QNL36154.1, QNL36166.1, QNL36178.1, QNL36190.1, QNL36202.1, QNL36214.1, QNL36226.1, QNL36238.1, QNL36250.1, QNL36262.1, QNL36274.1, QNL36286.1, QNL36298.1, QNL36310.1, QNL36334.1, QNL36346.1, QNL36562.1, QNJ45326.1, QNJ45338.1, QNJ45350.1, QNJ45362.1, QNJ45374.1, QNJ45386.1, QNJ45398.1, QNJ45410.1, QNJ45422.1, QNJ45434.1, QNJ45446.1, QNJ45458.1, QNJ45470.1, QNJ45482.1, QNJ45494.1, QNJ45506.1, QNJ45518.1, QNJ45530.1, QNJ45542.1, QNJ45554.1, QNJ45566.1, QNJ45578.1, QND78273.1, QNC49340.1, QNA70283.1, QNA70295.1, QNA70307.1, QNA70510.1, QNA70522.1, QNA70534.1, QNB17665.1, QNB17677.1, QNB17689.1, QNB17759.1, QNB17771.1, QNB17783.1, QNB17840.1, QNB17852.1, QNB42339.1, QNB42351.1, QNB48580.1, QNB48592.1, QMV29262.1, QMV29274.1, QMV29286.1, QMV29298.1, QMV29310.1, QMV29332.1, QMV29334.1, QMV29346.1, QMU84850.1, QMU84862.1, QMU84874.1, QMU84886.1, QMU84898.1, QMU84910.1, QMU84922.1, QMU84934.1, QMU84946.1, QMU84958.1, QMU84970.1, QMU84982.1, QMU94740.1, QMU94752.1, QMU94764.1, QMU94776.1, QMU94788.1, QMU94800.1, QMU94812.1, QMU94824.1, QMU94836.1, QMU94848.1, QMU94860.1, QMU94872.1, QMU94884.1, QMU94896.1, QMU94908.1, QMU94920.1, QMU94932.1, QMU94944.1, QMU94956.1, QMU94968.1, QMU94980.1, QMT97816.1, QMT97828.1, QMS95041.1, QMS50999.1, QMS51011.1, QMS51023.1, QMS51035.1, QMS51047.1, QMS51059.1, QMS51071.1, QMS51083.1, QMS51095.1, QMS51107.1, QMS51119.1, QMS51131.1, QMS51143.1, QMS51155.1, QMS51167.1, QMS51179.1, QMS51191.1, QMS51203.1, QMS51215.1, QMS51227.1, QMS51239.1, QMS51251.1, QMS51263.1, QMS51287.1, QMS51299.1, QMS51311.1, QMS51323.1, QMJ01245.1, QMJ01257.1, QMJ01269.1, QMJ01293.1, QMJ01353.1, QMJ01365.1, QMJ01377.1, QMJ01389.1, QMJ01401.1,

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622	V622F	QLH56074.1
654	E654Q	QLE10837.1
655	H655Y	QNL35818.1, QLH93131.1, QKT20894.1, QKE23255.1
660	Y660F	QLE10861.1
672	S672D	QMS95041.1
675	Q675H	QMU84946.1, QKW92184.1
675	Q675R	QLH55683.1, QLE11125.1
677	Q677H	QLF98119.1, QLA10116.1, QJY40409.1
682	R682Q	QKV49386.1, QKF95522.1
682	R682W	QKN61217.1
684	A684V	QKU37093.1
688	A688V	QLF98180.1
690	Q690H	QNL90920.1, QNL35914.1, QLH64839.1, QLH64889.1, QLF98167.1
701	A701T	QNN88142.1, QNN88154.1, QNN88178.1, QNN88202.1, QNN26408.1, QNL35902.1
701	A701V	QLY82484.1
704	S704L	QNN88070.1, QNN88082.1, QNN88274.1
706	A706S	QJX44634.1, QJR84429.1
722	V722I	QIZ16509.1
731	M731I	QLQ87444.1, QLH56254.1
754	L754F	QLK03503.1,
765	R765L	QJD47800.1
771	A771S	QMU94860.1
774	Q774R	QMS95041.1
780	E780D	QKY60177.1, QKY60189.1
783	A783S	QLF97795.1
786	K786N	QKY60177.1, QKY60189.1
791	T791I	QNJ45386.1, QKX47969.1, QKN61217.1, QJD47728.1, QJD47740.1, QJD47752.1, QJD20632.1, QJD20656.1
795	K795Q	QKY65277.1

798	G798A	QMS95041.1
808	D808G	QND78273.1
809	P809S	QKO00486.1
812	P812L	QN030935.1, QNN88094.1, QNN88142.1, QNN88166.1, QNN88190.1, QNN88214.1, QNN88286.1, QNN26408.1, QNL35890.1, QNL35902.1, QNL35998.1
827	T827I	QJT43584.1
829	A829T	QLJ85689.1, QJQ84676.1, QJQ84700.1, QJQ84712.1, QJQ84748.1, QJQ84771.1, QJQ84795.1, QJQ84807.1, QJQ84819.1, QJQ84831.1
834	I834V	QMU94824.1, QMU94908.1
874	S874F	QJD47718.1
879	A879S	QNN88250.1, QNN88262.1, QLF97939.1, QJX44466.1
892	A892V	QJT43572.1
900	M900I	QLK98450.1, QLK98489.1, QLK98514.1, QLL22773.1, QLL25604.1, QLL25825.1, QLL25837.1, QLL25921.1, QLL25957.1, QLL25969.1, QLK03407.1, QLK03431.1, QLK03455.1, QLK03467.1
930	A930V	QIA98583.1
936	D936Y	QMS50999.1, QMS51047.1, QLE10849.1
938	L938F	QMS51179.1
939	S939F	QLF97795.1
939	S939Y	QKK12815.1
941	T941A	QNB48592.1
948	L948I	QNR60009.1
974	S974P	QMS95041.1
1002	Q1002E	QKF95522.1
1063	L1063F	QLG69199.1
1077	T1077I	QLR12333.1
1083	H1083Q	QNN88094.1, QNN88106.1, QNN88166.1, QNN88178.1, QNN88190.1, QNN88202.1, QNN81492.1, QJY40517.1, QJY40565.1
1084	D1084Y	QMU94776.1, QMU94968.1
1088	H1088R	QLI52057.1, QLI52069.1
1089	F1089V	QLI52057.1, QLI52069.1
1104	V1104L	QKO25782.1, QJX44574.1
1139	D1139Y	QMJ01257.1
1147	S1147L	QMS95041.1
1153	D1153Y	QKJ68545.1
1167	G1167S	QMJ01317.1
1176	V1176F	QNJ45410.1, QNJ45434.1,
1181	K1181R	QJR84369.1
1185	R1185H	QMV29274.1, QMS95041.1
1187	N1187K	QLF97987.1
1191	K1191N	QKO25674.1
1192	N1192S	QND78273.1
1195	E1195Q	QLR12393.1

1201	Q1201K	QKJ68605.1
1230	V1230E	QMS95041.1
1243	C1243F	QJR84429.1, QJR84441.1
1246	G1246A	QMS95041.1
1259	D1259Y	QLQ87492.1
INCOMPLETE	INCOMPLETE	QKN61229.1, QJX44490.1, QMJ01509.1, QLR07172.1, QLR07184.1, QLI49757.1, QKY59893.1, QKY60037.1, QHS34546.1, QMJ01521.1, QLR07196.1, QKS67443.1, QLI49757.1

#### List of mutation

List of mutations	Occurrence of mutations (Number of isolates that showed the mutation)
F2L	1
S13I	1
Q14H	1
A27V	1
Y28H	1
Y28N	1
T29A	1
G35V	1
Y38C	1
S50L	1
F59S	1
A67S	1
A67V	1
I68R	1
F86S	1
E96G	1
K97Q	1
V127F	1
D138Y	1
N148Y	1
S151G	1
N158K	1
S162I	1
S172F	1
Q173H	1
N187K	1
R190S	1
G199R	1
V213L	1
S221W	1
I233V	1

Y248H	1
G261S	1
G261R	1
A262S	1
V267L	1
G268D	1
Q271R	1
A292V	1
L293M	1
D294I	1
P295H	1
L296F	1
S297W	1
C301F	1
P337R	1
R346T	1
L368P	1
V382L	1
A411D	1
E471Q	1
S477N	1
C488R	1
P491L	1
Q506H	1
P507S	1
P507H	1
A520S	1
A570V	1
G594S	1
Q607L	1
V622F	1
E654Q	1
Y660F	1
S672D	1
R682W	1
A684V	1
A688V	1
A701V	1
V722I	1
L754F	1
R765L	1
A771S	1

Q774R	1
A783S	1
K795Q	1
G798A	1
D808G	1
P809S	1
T827I	1
I834V	1
S874F	1
A892V	1
A930V	1
L938F	1
S939F	1
S939Y	1
T941A	1
L948I	1
S974P	1
Q1002E	1
L1063F	1
T1077I	1
D1139Y	1
S1147L	1
D1153Y	1
G1167S	1
K1181R	1
N1187K	1
K1191N	1
N1192S	1
E1195Q	1
Q1201K	1
V1230E	1
G1246A	1
D1259Y	1
T22I	2
P25L	2
P26L	2
N74K	2
G75V	2
T76I	2
S98F	2
D138H	2
W152L	2

M153I	2
S155I	2
E156D	2
H164R	2
M177I	2
G181A	2
N211Y	2
W258L	2
Y508N	2
D574Y	2
Q613H	2
Q675H	2
Q675R	2
R682Q	2
A706S	2
M731I	2
E780D	2
K786N	2
D1084Y	2
H1088R	2
F1089V	2
V1104L	2
V1176F	2
R1185H	2
C1243F	2
L7S	3
L8V	3
H146Y	3
S255F	3
L518I	3
Q677H	3
S704L	3
D936Y	3
H49Y	4
T95I	4
V367F	4
H655Y	4
A879S	4
Q690H	5
A701T	6
T791I	8
T572I	9

H1083Q	9
A829T	10
L5F	11
H519Q	11
P812L	11
S12F	13
INCOMPLETE	13
M900I	14
R78M	16
E583D	16
A522V	28
L54F	95
D614G	845

**Supplementary table S5.** Geographical location: Oceania. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid Range	Mutation	Accession number
3	V3F	QNO92387.1
5	L5F	QNO60863.1, QNO87275.1, QNO87803.1, QNO87887.1, QNO93299.1, QNP01735.1, QLG75857.1, QKR84841.1, QJR87633.1, QJR90681.1
12	S12F	QNO59267.1
15	C15F	QNP03115.1
21	R21T	QNO59387.1, QNO94607.1, QNO95711.1,
22	T22I	QLG76385.1, QLG76457.1
29	T29I	QKV37632.1
30	T30I	QJR87897.1
35	G35V	QNO80555.1, QNO86879.1, QNP04111.1
49	H49Y	QKV38004.1, QKV38016.1
50	S50L	QKV37332.1, QKV38100.1, QKV38448.1, QJR87081.1, QJR87909.1, QJR87933.1
71	S71F	QNO81083.1, QNO82571.1, QNO91427.1, QNP05551.1
71	S71P	QNO88871.1
76	T76I	QNP06319.1, QJR88113.1,
83	V83F	QNO97199.1
98	S98F	QNO60371.1, QNO92279.1, QLG76145.1
112	S112L	QNP05107.1
124	T124I	QNO86723.1
128	I128F	QJR92637.1, QJR94725.1
138	D138H	QJR93237.1, QJR93333.1, QJR93345.1,
146	H146Q	QNP05959.1
153	M153I	QLG75929.1 , QNO92603.1
165	N165H	QNP00452.1
176	L176F	QJR93801.1
178	D178N	QLG75965.1
180	E180K	QLG76385.1, QLG76457.1
181	G181V	QNO62999.1,
221	S221L	QNP01591.1, QJR86661.1, QJR86733.1, QJR89217.1,
245	H245Y	QNP01099.1
247	S247R	QNO93287.1, QHR84449.1
253	D253G	QLG75941.1
254	S254F	QNO73463.1, QNO73919.1, QNO76067.1, QNO79991.1, QNO80951.1, QNO83915.1, QNO87515.1, QNO89027.1, QNO97775.1, QNP01411.1, QNP02995.1, QNP03919.1, QNO62267.1, QNO73475.1, QNO73487.1, QNO79991.1
255	S255F	QNO62267.1
256	S256P	QNO89015.1, QNO89111.1
258	W258L	QNO89723.1, QJR87129.1
262	A262T	QJR87465.1, QJR87537.1, QJR87969.1, QJR87993.1
275	F275L	QNO92999.1

283	G283V	QLG75833.1
284	T284I	QNO92843.1
298	E298K	QNO93023.1
307	T307I	QNO90635.1
308	V308L	QNO66275.1
309	E309Q	QNO64499.1, QNO71951.1
<b>330</b>	<b>P330A</b>	<b>QNO65819.1, QNO65927.1, QNO76679.1</b>
<b>444</b>	<b>K444N</b>	<b>QNO75467.1</b>
<b>446</b>	<b>G446V</b>	<b>QNP04423.1</b>
<b>455</b>	<b>L455F</b>	<b>QNO80951.1</b>
<b>469</b>	<b>I469T</b>	<b>QJR86937.1</b>
<b>475</b>	<b>A475V</b>	<b>QNO92291.1</b>
<b>477</b>	<b>S477N</b>	<p>QNO58751.1, QNO58763.1, QNO58799.1, QNO58823.1, QNO58835.1, QNO58859.1, QNO58871.1, QNO58883.1, QNO58895.1, QNO58907.1, QNO58919.1, QNO58943.1, QNO58955.1, QNO58967.1, QNO58979.1, QNO58991.1, QNO59003.1, QNO59027.1, QNO59039.1, QNO59051.1, QNO59063.1, QNO59075.1, QNO59087.1, QNO59111.1, QNO59123.1, QNO59135.1, QNO59147.1, QNO59159.1, QNO59183.1, QNO59207.1, QNO59231.1, QNO59255.1, QNO59267.1, QNO59279.1, QNO59291.1, QNO59375.1, QNO59399.1, QNO59411.1, QNO59423.1, QNO59435.1, QNO59447.1, QNO59459.1, QNO59483.1, QNO59519.1, QNO59543.1, QNO59579.1, QNO59591.1, QNO59603.1, QNO59615.1, QNO59627.1, QNO59639.1, QNO59651.1, QNO59663.1, QNO59675.1, QNO59711.1, QNO59723.1, QNO59735.1, QNO59747.1, QNO59759.1, QNO59783.1, QNO59807.1, QNO59819.1, QNO59831.1, QNO59843.1, QNO59855.1, QNO59867.1, QNO59879.1, QNO59891.1, QNO59903.1, QNO59915.1, QNO59927.1, QNO59939.1, QNO59951.1, QNO59963.1, QNO59975.1, QNO59987.1, QNO60011.1, QNO60023.1, QNO60035.1, QNO60047.1, QNO60059.1, QNO60071.1, QNO60095.1, QNO60167.1, QNO60179.1, QNO60191.1, QNO60203.1, QNO60215.1, QNO60227.1, QNO60239.1, QNO60251.1, QNO60263.1, QNO60275.1, QNO60287.1, QNO60323.1, QNO60335.1, QNO60347.1, QNO60359.1, QNO60371.1, QNO60383.1, QNO60395.1, QNO60407.1, QNO60419.1, QNO60431.1, QNO60443.1, QNO60455.1, QNO60467.1, QNO60479.1, QNO60491.1, QNO60503.1, QNO60515.1, QNO60527.1, QNO60539.1, QNO60563.1, QNO60575.1, QNO60587.1, QNO60599.1, QNO60611.1, QNO60623.1, QNO60635.1, QNO60647.1, QNO60659.1, QNO60671.1, QNO60683.1, QNO60695.1, QNO60707.1, QNO60719.1, QNO60731.1, QNO60743.1, QNO60767.1, QNO60779.1, QNO60803.1, QNO60827.1, QNO60839.1, QNO60851.1, QNO60863.1, QNO60875.1, QNO60899.1, QNO60911.1, QNO60923.1, QNO60935.1, QNO60947.1, QNO60959.1, QNO60971.1, QNO60983.1, QNO60995.1, QNO61007.1, QNO61019.1, QNO61031.1, QNO61043.1, QNO61055.1, QNO61067.1, QNO61079.1, QNO61091.1, QNO61103.1, QNO61115.1, QNO61127.1, QNO61139.1, QNO61151.1, QNO61163.1, QNO61175.1, QNO61187.1, QNO61199.1, QNO61211.1, QNO61223.1, QNO61235.1, QNO61247.1, QNO61259.1, QNO61271.1, QNO61283.1, QNO61295.1, QNO61307.1, QNO61319.1, QNO61331.1, QNO61343.1, QNO61355.1, QNO61367.1, QNO61379.1, QNO61391.1, QNO61403.1, QNO61415.1, QNO61427.1, QNO61439.1, QNO61451.1, QNO61463.1, QNO61475.1, QNO61487.1, QNO61499.1, QNO61535.1, QNO61547.1,</p>

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619	E619G	QNO74951.1, QNP02671.1

621	P621S	QJR87501.1
626	A626V	QNP06067.1
632	T632N	QNO63659.1, QNO64079.1, QNO64103.1, QNO69503.1, QNO69671.1, QNO69827.1, QNO73211.1, QNO74183.1, QNO75323.1, QNO75503.1, QNO75647.1, QNO75671.1, QNO76439.1, QNO76487.1, QNO78419.1, QNO78527.1, QNO78563.1, QNO78611.1, QNO78767.1, QNO79463.1, QNO79571.1, QNO80099.1, QNO80339.1, QNO80771.1, QNO81023.1, QNO81875.1, QNO82415.1, QNO83159.1, QNO83207.1, QNO83963.1, QNO84023.1, QNO84059.1, QNO84083.1, QNO84155.1, QNO84407.1, QNO84719.1, QNO84767.1, QNO84935.1, QNO87455.1, QNO87647.1, QNO87491.1, QNO87851.1, QNO87887.1, QNO88139.1, QNO88331.1, QNO89435.1, QNO89855.1, QNO89963.1, QNO900095.1, QNO91055.1, QNO96671.1, QNO96767.1, QNO97559.1, QNO98927.1, QNP01195.1, QNP01663.1, QNP01795.1, QNP01819.1, QNP03739.1, QNP04195.1, QNP04207.1, QNP04771.1, QNP04999.1, QNP05719.1
639	G639V	QNO98939.1
675	Q675K	QLG76121.1
675	Q675H	QKR84925.1
677	Q677H	QLG76373.1, QJR87477.1
678	Q678H	QNO94559.1
684	A684V	QNO90059.1
698	S698L	QNO61895.1, QNO64691.1, QNO64703.1, QNO69047.1, QNO69191.1, QNO70463.1, QNO72263.1, QNO79007.1, QNO81575.1, QNO86171.1, QNO89831.1, QNO89915.1, QNP02707.1
704	S704L	QKV37632.1, QJR87897.1
716	T716I	QNP00979.1, QNP00991.1
731	M731I	QNO88303.1, QJR85593.1
778	T778I	QNO06083.1, QNO060899.1, QNO61019.1, QNO61031.1, QNO61595.1, QNO62867.1, QNO63371.1, QNO64007.1, QNO68471.1, QNO70187.1, QNO70235.1, QNO70247.1, QNO76271.1, QNO76283.1, QNO79439.1, QNO80999.1, QNO81371.1, QNO81767.1, QNO81779.1, QNO82319.1, QNO83555.1, QNO87539.1, QNO88055.1, QNO94835.1, QNO95363.1, QNO95939.1, QNO95975.1, QNO96875.1, QNO97151.1, QNO97847.1, QNO98291.1, QNO99359.1, QNO99563.1, QNO99707.1, QNP00128.1, QNP03895.1, QNP03991.1,
791	T791I	QJR88113.1
812	P812S	QKR84637.1, QKV38208.1
831	A831V	QNO60947.1
839	D839N	QLG76505.1, QNO92543.1
845	A845S	QNP07039.1
846	A846V	QJR87261.1
930	A930V	QNO81407.1
931	I931V	QLG76577.1
936	D936Y	QJR93861.1
940	S940F	QNO85487.1
952	V952I	QNO87695.1
957	Q957R	QNO80891.1
963	V963F	QNP00979.1, QNP00991.1

1020	A1020V	QNO99167.1
1066	T1066I	QNO62939.1
1073	K1073N	QLV75833.1, QLG75689.1,
1079	P1079S	QJR88221.1
1097	S1097L	QNO89207.1
1117	T1117I	QNO97067.1
1122	V1122L	QNP01843.1, QNP01831.1, QNP01687.1, QNP00440.1, QNO78959.1
1122	V1122M	QNO90119.1
1124	G1124V	QKV38280.1, QKV37680.1, QKV37668.1, QKV37632.1, QKV37596.1, QKV37548.1, QKV37536.1, QKV37512.1, QKV37500.1, QKV37476.1, QKV37392.1, QKV37368.1, QKV37356.1, QKV37344.1, QKV37332.1, QKV37308.1, QNP05815.1, QNP05803.1, QNP05767.1, QNP05755.1, QNP05743.1, QNP05671.1, QNP05659.1, QNP05647.1, QNP05635.1, QNP05623.1, QNP05611.1, QNP05587.1, QNP05563.1, QNP05539.1, QNP05515.1, QNP05371.1, QNP05359.1, QNP05335.1, QNP05203.1, QNP05191.1, QNP04831.1, QNP04819.1, QNP04807.1, QNP04711.1, QNP04627.1, QNP04579.1, QNP04567.1, QNP04531.1, QNP04519.1, QNP04507.1, QNP04495.1, QNP04531.1, QNP04519.1, QNP04507.1, QNP04595.1, QNP04471.1, QNP04459.1, QNP04411.1, QNP04399.1, QNP04375.1, QNP04363.1, QNP04303.1,
1163	D1163G	QJR86205.1, QJR85701.1
1211	K1211Q	QNO81035.1
1228	V1228L	QNO94487.1
1229	M1229	QNO96407.1
1238	T1238I	QNO71891.1
1244	L1244P	QNO83747.1
1254	C1254F	QLG76049.1
1260	D1260N	QJR85833.1, QJR85845.1, QJR87309.1
1262	E1262D	QNO78863.1
1265	L1265R	QNO87419.1
INCOMPLETE	INCOMPLETE	QNO65387.1, QNO71111.1, QNO71459.1, QNO85439.1, QNO91511.1, QNO92399.1, QNO92651.1, QNO93323.1, QNO97283.1, QLG76337.1, QNO65387.1, QNO97727.1, QLG76853.1, QNO58727.1, QNO97283.1

List of mutations	Occurrence of mutations (Number of isolates that showed the mutation)
V3F	1
S12F	1
C15F	1
T29I	1
T30I	1
S71P	1
V83F	1
S112L	1
T124I	1
H146Q	1
N165H	1
L176F	1
D178N	1
G181V	1
H245Y	1
D253G	1
S255F	1
F275L	1
G283V	1
T284I	1
E298K	1
T307I	1
V308L	1
K444N	1
G446V	1
L455F	1
I469T	1
A475V	1
V483F	1
S494L	1
T500I	1
H519Q	1
P521S	1
A522V	1
T547K	1
L552F	1
P561L	1
G566S	1
A570S	1
T572I	1
Q580H	1

E583D	1
Q613H	1
P621S	1
A626V	1
G639V	1
Q675K	1
Q675H	1
Q678H	1
A684V	1
T791I	1
A831V	1
A845S	1
A846V	1
A930V	1
I931V	1
D936Y	1
S940F	1
V952I	1
Q957R	1
A1020V	1
T1066I	1
P1079S	1
S1097L	1
T1117I	1
V1122M	1
K1211Q	1
V1228L	1
M1229	1
T1238I	1
L1244P	1
C1254F	1
E1262D	1
L1265R	1
T22I	2
H49Y	2
T76I	2
I128F	2
M153I	2
E180K	2
S247R	2
S256P	2
W258L	2
E309Q	2
E619G	2

Q677H	2
S704L	2
T716I	2
M731I	2
P812S	2
D839N	2
V963F	2
K1073N	2
D1163G	2
R21T	3
G35V	3
S98F	3
D138H	3
P330A	3
D1260N	3
S71F	4
S221L	4
A262T	4
V1122L	5
S50L	6
L5F	10
G485R	10
S698L	13
INCOMPLETE	15
S254F	16
N501Y	34
T778I	37
G1124V	58
T632N	64
S477N	3366
D614G	3847

**Supplementary table S6:** Mutational analysis of spike protein of geographic location: **North America** with reference Wuhan sequence. The mutation at receptor binding domain (between 319-541 aa) is highlighted in bold.

Amino acid range	Mutation	Accession number
2	F2L	QKE49877.1
3	V3F	QNA37531.1
5	L5I	QLY88863.1
5	L5F	QOC61243.1, QOC61951.1, QOC62287.1, QNV69834.1, QNV70290.1, QNV70626.1, QNT54592.1, QNU11076.1, QNU11615.1, QNS00145.1, QNS00157.1, QNS00745.1, QNN95053.1, QNN95149.1, QNO30156.1, QNO30408.1, QNO30420.1, QNO30444.1, QNO30456.1, QNL24104.1, QNL12230.1, QNL14138.1, QNJ46022.1, QNI24852.1, QNI23221.1, QNA38347.1, QNA38455.1, QMU94704.1, QMT49825.1, QMT49993.1, QMT50977.1, QMT52993.1, QMT53077.1, QMT53973.1, QMT56696.1, QMT57500.1, QMT57596.1, QMT93868.1, QMT96520.1, QMT96772.1, QMT27844.1, QMS52189.1, QMS48259.1, QMS48271.1, QMS48295.1, QMI91082.1, QLY88515.1, QLY88683.1, QLY88875.1, QLY88887.1, QLL35568.1, QLK97795.1, QLH58204.1, QLC94700.1, QLC46889.1, QLC46925.1, QLC47069.1, QKW89047.1, QKW89371.1, QKV38929.1, QKV38952.1, QKV39036.1, QKV39563.1, QKV39695.1, QKV39707.1, QKV39743.1, QKV40175.1, QKV40247.1, QKV40295.1, QKV40451.1, QKV41519.1, QKT21290.1, QKU30557.1, QKU30593.1, QKU30617.1, QKU30665.1, QKU30965.1, QKV06523.1, QKV07315.1, QKV07711.1, QKV07819.1, QKV08023.1, QKV08311.1, QKV08563.1, QKS65812.1, QKS65932.1, QKS66412.1, QKN19839.1, QKG87986.1, QKG88898.1, QKG89018.1, QKG89534.1, QKG89702.1, QKG90086.1, QKG90194.1, QKG91022.1, QKG81763.1, QKG81847.1, QJY40061.1, QJY40121.1, QJX45019.1, QJX45271.1, QJW28196.1, QJW28208.1, QJW28280.1, QJS56739.1, QJR83437.1, QJC19803.1, QJC19959.1, QJA17468.1, QIZ15981.1, QIU81910.1, QIS60906.1, QIQ49882.1, QIQ50152.1
6	V6F	QNO31916.1, QNE12584.1, QMI90772.1, QMI91418.1, QMI91778.1, QMI97192.1, QMI97204.1, QMI97240.1, QMI98031.1, QMI98127.1, QMI98163.1, QMI98175.1, QMI98379.1, QMI98439.1, QMI98499.1, QMI98523.1, QMI98750.1, QMI99626.1, QMI99662.1, QMI99710.1, QMI99782.1, QMI99926.1, QMJ00070.1, QMJ00453.1, QMJ00537.1,
7	L7V	QLC47117.1
9	P9S	QNA36883.1
9	P9L	QIZ15717.1
12	S12P	QNL12866.1
12	S12F	QNI23197.1
14	Q14H	QNA36151.1, QNA36475.1, QNA37771.1, QNA39906.1, QNA39918.1, QNA41142.1, QLJ51517.1, QLG98023.1, QLG98323.1, QKG89366.1, QKG89462.1, QKG89522.1, QKG89798.1, QKG90506.1, QKG90662.1, QKG90722.1,
15	C15F	QMS53567.1
16	V16F	QNU12486.1
17	N17K	QKU31901.1

18	L18F	QNS00793.1, QNM94394.1, QNG41577.1, QMI96787.1, QKG86990.1, QKG89546.1
20	T20I	QMI99854.1, QMI99866.1, QMI99902.1, QMJ20494.1, QMJ20590.1,
21	R21T	QNN87928.1
21	R21I	QOC63115.1
22	T22N	QLJ93783.1, QLJ93855.1, QLJ93867.1
22	T22A	QJX45031.1
23	Q23K	QMJ20434.1
25	P25S	QKU30629.1, QKV06475.1
26	P26S	QKN20847.1
26	P26L	QOC62707.1
27	A27V	QNU12176.1, QNR99695.1, QNC69357.1
27	A27S	QNQ16937.1, QNL24020.1, QJS56799.1, QJF77194.1, QIU80973.1
29	T29I	QLC91232.1, QLC93920.1, QKV07471.1, QIS60546.1
32	F32L	QNA36223.1, QNA36967.1, QNA37555.1, QNA38215.1, QNA39211.1, QNA40290.1, QNA41274.1, QNA41406.1, QKG86966.1, QKG89150.1, QKG90530.1
33	T33I	QNQ15632.1
34	R34C	QMJ00669.1
41	K41I	QNA38791.1
49	H49Y	QNT35432.1, QNS00349.1, QNS00817.1, QNO40261.1, QNE12176.1, QNG41817.1, QMU93192.1, QMU93576.1, QMT97024.1, QMJ00933.1, QMJ00957.1, QLH00049.1, QLC46733.1, QJX70579.1, QHW06059.1
50	S50L	QNT17009.1, QMJ00669.1, QKV38905.1
51	T51I	QLK97831.1, QLK97843.1
52	Q52L	QMT51109.1, QMT53289.1, QMT53385.1, QMT91204.1, QMT91348.1, QMT91480.1, QMT91768.1, QMT92668.1, QMT93532.1, QMT93568.1,
52	Q52H	QNA41562.1, QMT51649.1, QMT52117.1, QMT52369.1, QMT52585.1, QMT52705.1, QMT52753.1, QMT93544.1
54	L54W	QJD47298.1
54	L54F	QNT17153.1, QNN87088.1, QNA37207.1, QNA37279.1, QNA38035.1, QNA38431.1, QNA41226.1, QMT49441.1, QMT49501.1, QMT49549.1, QMT49621.1, QMT50209.1, QMT50641.1, QMT51481.1, QMT51949.1, QMT53397.1, QMT54561.1, QMT55112.1, QMT56144.1, QMT56768.1, QMT56900.1, QMT57704.1, QKV39635.1, QKV40031.1, QKV06271.1, QKV06331.1, QJQ84136.1, QIS30295.1
55	F55I	QJD47298.1
57	P57L	QJD47298.1
62	V62L	QNA40350.1
66	H66R	QLC48455.1
67	A67S	QOC62467.1, QOC63079.1, QNS01104.1
68	I68T	QOD06193.1
69	H69Y	QMU91675.1, QKV41099.1, QKG89918.1
71	S71F	QKS90083.1, QKS90203.1, QIZ13179.1
72	G72V	QKE51026.1
73	T73I	QMU92880.1

75	G75V	QNR54039.1, QNR54051.1, QNR54063.1, QNR54075.1, QNR54087.1, QNR54099.1, QNR54111.1, QNR54123.1, QNR54135.1, QNR54147.1, QNR54159.1, QNL12446.1, QMI92798.1, QMI93781.1, QMI96583.1, QLI33492.1, QLA47679.1,
75	G75S	QNA41190.1
76	T76I	QNA39510.1, QMJ21021.1, QLG99940.1
77	K77I	QNS26546.1
78	R78G	QNM81129.1
79	F79L	QKE44989.1
80	D80Y	QNM81069.1, QNM81081.1, QNM81129.1, QMU92107.1, QMT92008.1, QMT92008.1, QMT92164.1, QMT92608.1, QMT94156.1, QMS51458.1, QIZ13299.1
80	D80N	QMU94548.1, QJC19647.1
87	N87Y	QMS52501.1
88	D88Y	QKG87470.1, QKG89582.1,
88	D88N	QLY88863.1
88	D88E	QMT56576.1, QMT56936.1, QMT57116.1, QMT57152.1
88	D88A	QJU70329.1
90	V90F	QJD23273.1
95	T95I	QOE45323.1, QNS28597.1, QMT92584.1, QKG27877.1, QKG27889.1, QJQ28105.1
95	T95A	QMT48901.1, QMT91288.1, QMT92728.1, QMS51637.1, QMS51805.1, QMS54287.1
96	E96D	QNT08737.1, QIS60930.1
97	K97T	QNL11906.1, QLM06039.1, QLM06099.1, QLJ50197.1, QLJ50953.1, QLG99199.1
98	S98F	QNN87304.1, QMS53483.1, QLC94196.1
102	R102I	QMI92498.1, QLG98647.1
102	R102G	QNR99587.1
105	I105L	QNL36430.1, QMT49393.1, QMT51025.1, QMT56660.1
111	D111N	QOC62503.1, QOC62695.1, QNV70530.1, QNV70638.1, QNV70914.1, QNT54664.1, QNK38913.1, QNK38925.1, QNK38937.1, QNK38961.1, QNK38973.1, QKU28882.1, QIS61338.1,
118	L118F	QJF76438.1
132	E132D	QKW89191.1
133	K133R	QLK98251.1
134	Q134R	QNM94190.1
136	C136R	QMJ20554.1
138	D138H	QOD06889.1, QOC60727.1, QNS26642.1, QNO40237.1, QNE12260.1, QMX87013.1, QLC94592.1, QLC94616.1, QKI30376.1, QKG64063.1, QKG64075.1, QKG86505.1, QKG86517.1, QKG86529.1, QKG86541.1, QKG27853.1, QKG27865.1, QKG27877.1, QKG27889.1, QKG27901.1, QKG27913.1, QKE44809.1
141	L141V	QNV70746.1
141	L141F	QMT53313.1, QMT53373.1, QMT53397.1, QMT54453.1
142	G142S	QNS26498.1, QNS26510.1, QNS26534.1, QNS26666.1, QNS26678.1, QNS26690.1, QNS26702.1, QNS26978.1, QNS26990.1, QNA39534.1

142	G142V	QKV38905.1
143	V143F	QMU94020.1
144	Y144H	QNU10860.1, QNU10872.1
144	Y144F	QNA36223.1, QNA36967.1, QNA37339.1, QNA37555.1, QNA38215.1, QNA39211.1, QNA40290.1, QNA41274.1, QNA41406.1
145	Y145H	QKE46028.1, QJF77230.1, QJE38606.1
146	H146Y	QMU25935.1, QJW28196.1, QJW28208.1
147	K147E	QMT96784.1
148	N148S	QMI97276.1, QMI98067.1, QKT21158.1, QIZ97039.1
149	N149Y	QNA37687.1, QNA38071.1, QNA38443.1, QNA39798.1, QNA40350.1, QNA40374.1, QNA40674.1, QNA40950.1, QNA41070.1
151	S151I	QOC66665.1, QLG99547.1
152	W152R	QNN16889.1
152	W152L	QNL24092.1
153	M153V	QMT52729.1
153	M153T	QMT49333.1, QMT55748.1, QMT55904.1, QMT28629.1
153	M153I	QMI93218.1, QLG97819.1, QLC47069.1, QJX45007.1, QJX45091.1
154	E154V	QMI99674.1
155	S155I	QNL11534.1
157	F157L	QLG97711.1, QII57278.1
158	R158S	QLB39236.1
173	Q173K	QNV71034.1, QNS00121.1
174	P174S	QNU10576.1
176	L176F	QMU93912.1, QMT53949.1
177	M177K	QND77102.1
177	M177I	QMU92664.1, QMU94728.1,
178	D178G	QNO40249.1
178	D178N	QLL36265.1
180	E180V	QNS28961.1, QNS28973.1, QNS29009.1, QNS29117.1, QNS29129.1, QNS29141.1, QNS29153.1, QNS29165.1, QNS29177.1, QNS29189.1, QNS29737.1, QNS29261.1, QNS29273.1, QNS29321.1, QNS29333.1, QNS29345.1, QNS29357.1, QNS29369.1
181	G181V	QOC66989.1, QNA37447.1, QIJ96493.1
181	G181A	QNR99347.1
183	Q183H	QOD06745.1
186	F186S	QNS00697.1
189	L189F	QMU25143.1
190	R190K	QKU33257.1
203	I203M	QLG99856.1, QLH00097.1
213	V213L	QOC61807.1
214	R214L	QMT55760.1, QLC91400.1, QJX70327.1
215	D215Y	QOC61831.1, QOC62239.1, QNN95449.1, QNM94178.1, QNL11918.1, QMU91291.1, QMT55508.1, QMJ00981.1
215	D215G	QMT96268.1
216	L216F	QMU93864.1, QMT48877.1, QMT49069.1, QMI94033.1, QLH00913.1, QLH00925.1, QLH00949.1, QLH00973.1, QLH01033.1

217	P217S	QOC65897.1
218	Q218L	QJS57135.1
220	F220L	QNO33008.1, QNN95197.1, QNN95221.1, QNG42940.1, QNG42952.1, QMT96700.1, QMT96712.1, QMT96772.1, QMT97096.1, QMT97108.1, QMT97120.1, QMT97132.1, QLL35378.1, QLH58934.1, QLC47285.1, QLC47297.1, QLC47309.1, QLC47872.1, QLC47896.1, QLC47908.1, QLC47920.1, QLC47932.1
221	S221L	QOC65681.1, QOC65693.1, QOC65717.1, QOC65777.1, QOC65873.1, QLG99976.1, QLH00157.1, QLH00361.1, QLH00421.1, QLH00433.1, QLH00661.1, QLH00841.1, QLH00853.1, QLH01081.1, QLH01093.1, QKU37165.1, QKU37177.1, QKU37189.1, QKU37201.1, QKU37213.1, QKU37225.1, QKU37237.1, QKU37249.1, QKU37261.1, QKU37273.1, QKU37285.1, QKU37297.1, QKU37321.1, QKU37345.1,
222	A222V	QNS00325.1, QNS00565.1, QNS00577.1, QNO39961.1, QMU92484.1, QMJ01041.1, QLG97567.1
222	A222P	QKG89558.1
227	V227L	QND76190.1
228	D228H	QMJ20686.1
229	L229F	QKY77964.1
239	Q239R	QJI53955.1
240	T240I	QIU81585.1
242	L242F	QKV06379.1
243	A243S	QNR54231.1, QNR54243.1, QNI24900.1, QNA37939.1, QNA40722.1, QMS48295.1
243	A243V	QKV06859.1
245	H245Y	QNO32096.1, QLI51781.1
245	H245R	QKS65788.1
246	R246K	QMU92676.1
247	S247N	QNO39997.1
248	Y248S	QNO39997.1
252	G252D	QNS26978.1, QNS26990.1
252	G252S	QNG41277.1
253	D253G	QNM94190.1, QNM94382.1, QNG41361.1, QMX85874.1, QMX85898.1, QMX86185.1, QMX87313.1, QMU93828.1, QMJ00861.1, QLI93699.1, QLH27702.1, QLH27810.1, QLH27906.1, QKX46227.1, QKE49721.1, QJQ83884.1,
253	D253Y	QMT94180.1, QMT95476.1, QMS52740.1, QMS52979.1, QMS53183.1, QMS53471.1, QMS53783.1
254	S254F	QNR99276.1, QNR99300.1, QMI99806.1
255	S255F	QNA38467.1
256	S256L	QNL11570.1, QMU94560.1, QLM05835.1, QLI51613.1
258	W258L	QJU11481.1, QIZ64566.1, QIZ16197.1
261	G261R	QLC48455.1, QMT93712.1, QMT93328.1
261	G261F	QNV70890.1
261	G261V	QKN20943.1
262	A262S	QNN95353.1, QLC48052.1, QLC48064.1, QLG00003.1, QNG41637.1, QNJ46106.1

264	A264S	QMS54119.1, QMS51530.1
267	V367F	QOC65897.1, QKE11662.1
272	P272S	QNI25284.1
273	R273S	QKV40643.1, QKV35267.1
281	E281Q	QLI50605.1
284	T284I	QNU10908.1
287	D287G	QNG43096.1, QNJ45758.1
288	A288S	QMJ20135.1
289	V289I	QNL24092.1
292	A292S	QJC20714.1
293	L293V	QJC20714.1
294	D294E	QJC20714.1
295	P295S	QJC20714.1
298	T298G	QJD23609.1
306	F306L	QNT54520.1
307	T307I	QLI51421.1, QMI94969.1, QMT95944.1, QMT95968.1, QMT95752.1, QMT95716.1, QMT95320.1
308	V308L	QLC47489.1, QLC47657.1, QLC47153.1, QLH58468.1, QLH58480.1, QLH58756.1, QLH57881.1, QMJ00981.1, QNL11234.1
309	E309Q	QNR99599.1, QNR51352.1, QMI95496.1
314	Q314K	QOC66437.1, QOC66821.1, QOC67097.1, QLH01177.1
314	Q314L	QLB39021.1, QNI24852.1
314	Q314H	QMU94140.1
315	T315I	QKV42778.1, QMS53723.1
<b>321</b>	<b>Q321L</b>	<b>QLC91064.1, QNA36247.1</b>
<b>323</b>	<b>T323I</b>	<b>QJD25193.1, QKV06079.1, QLK98059.1</b>
<b>330</b>	<b>P330S</b>	<b>QKV37031.1, QKV37091.1</b>
<b>344</b>	<b>A344S</b>	<b>QMT55064.1, QMT54956.1, QMT54477.1, QMT54453.1, QMT54345.1, QMT54285.1, QMT54249.1, QMT53853.1, QMT53721.1, QMT53697.1, QMT53577.1, QMT53373.1, QMT53313.1, QMT50401.1, QMT50197.1, QMT49801.1, QMT49417.1, QMT49357.1,</b>
<b>345</b>	<b>T345S</b>	<b>QKV39455.1</b>
<b>348</b>	<b>A348T</b>	<b>QIS30335.1</b>
<b>348</b>	<b>A348S</b>	<b>QKU32465.1</b>
<b>357</b>	<b>R357K</b>	<b>QMU92215.1</b>
<b>374</b>	<b>F374L</b>	<b>QOC60787.1</b>
<b>384</b>	<b>P384L</b>	<b>QOD06601.1, QKO24139.1</b>
<b>395</b>	<b>V395I</b>	<b>QMI90807.1, QMI95674.1</b>
<b>403</b>	<b>R403K</b>	<b>QNN86049.1, QLL36145.1, QLA47775.1, QLA47787.1, QLA47799.1, QLA47883.1, QLA47895.1, QLA47907.1, QLA47919.1, QLA47931.1</b>
<b>407</b>	<b>V407I</b>	<b>QMU25947.1</b>
<b>411</b>	<b>A411S</b>	<b>QMI93158.1, QMI93230.1, QMI93410.1, QMI93554.1, QMI93578.1, QMI96187.1</b>
<b>413</b>	<b>G413R</b>	<b>QMI93326.1</b>
<b>441</b>	<b>L441I</b>	<b>QLC47908.1</b>
<b>446</b>	<b>G446V</b>	<b>QNI25212.1</b>

456	F456Y	QLC48455.1
457	R457K	QLH57714.1
458	K458Q	QLH01081.1
475	A475V	QNS30161.1
476	G476S	QKS90179.1, QKS90479.1, QJD48075.1, QJC20487.1, QIS30425.1, QIS30625.1, QIQ49882.1, QIQ50152.1
477	S477N	QNN95449.1, QNM94178.1, QMU91291.1
478	T478K	QNA39582.1
479	P479L	QKN20763.1
483	V483A	QMT28605.1, QMT28653.1, QMT28677.1, QMT28713.1, QMT28881.1, QKS89879.1, QKS90023.1, QKS90059.1, QKS90095.1, QKS90227.1, QKS90239.1, QKS90659.1, QKS91079.1, QKU53649.1, QKU53733.1, QKU54081.1, QKU54117.1, QKV06535.1, QJS57147.1, QJD48987.1, QJD49095.1, QIU81549.1, QIS60774.1, QIS60882.1, QIS60954.1, QIS30165.1
484	E484Q	QMI94525.1
493	Q493L	QLI51349.1
494	S494P	QJF75347.1
503	G503F	QOE45155.1
505	Y505H	QLC48419.1, QLC48431.1
508	Y508H	QMS52716.1
519	H519Q	QIS61422.1
520	A520S	QOC61879.1, QNQ17153.1
521	P521S	QNN95245.1
522	A522V	QNT54484.1, QKU28906.1,
522	A522S	QOC61711.1, QOC61843.1, QOC61963.1, QOC62791.1, QOC62887.1, QOC63031.1, QOC63043.1, QNV70410.1, QNA38755.1, QNA38371.1, QNA36463.1, QND76766.1
522	A522G	QOC62311.1, QOC62323.1, QOC63175.1
529	K529N	QOE45191.1
529	K529E	QJC20043.1
545	G545S	QMT93112.1
547	T547I	QKS90791.1, QKV41063.1, QKV40895.1, QKV40847.1, QNA39990.1
552	L552F	QMU93312.1, QNL11366.1
553	T553I	QJS54790.1, QJS54754.1
554	E554D	QKE44809.1, QKG86505.1, QKG86517.1, QKG86529.1, QKG86541.1, QKG27853.1, QKG27865.1, QKG27877.1, QKG27889.1, QKG27901.1, QKG27913.1, QKG64075.1, QKG64063.1, QKI30376.1
558	K558N	QLK97819.1, QLK97807.1
570	A570V	QKG90866.1, QLG98191.1, QLI51373.1, QLI51325.1
572	T572I	QNT16829.1, QMI00261.1, QMI99542.1, QMI98786.1, QMI97300.1, QMI96989.1, QMI96235.1
573	T573I	QNU07479.1
574	D574Y	QMI98666.1
579	P579S	QNC53881.1
583	E583D	QNU12044.1, QJW28580.1, QLG99439.1, QLG97471.1, QLI49981.1, QLM05667.1, QNG41289.1, QNL12014.1, QNL11954.1
584	I584V	QNR54368.1, QNR54392.1, QMT54561.1

585	L585F	QOC61771.1
586	D586E	QOC62443.1, QNV70362.1
596	S596I	QMT92740.1, QMT51997.1
598	I598V	QMT53613.1
603	N603H	QMJ00645.1
603	N603S	QNN86445.1
613	Q613R	QLC48407.1, QLG96893.1
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780	E780Q	QOC61459.1, QOC61711.1, QOC61759.1, QOC61843.1, QOC61963.1, QOC62227.1, QOC62251.1, QOC62299.1, QOC62383.1, QOC62599.1, QOC62775.1, QOC62767.1, QOC62791.1, QOC62863.1, QOC62887.1, QOC62923.1, QOC63019.1, QOC63031.1, QOC63043.1, QOC63091.1, QOC63103.1, QOC63115.1, QOC63151.1, QOC63199.1, QNV69786.1, QNV69822.1, QNV69894.1, QNV69966.1, QNV69978.1, QNV70074.1, QNV70146.1, QNV70326.1, QNV70386.1, QNV70410.1, QNV70494.1, QNV70518.1, QNV70554.1, QNV70590.1, QNV70686.1, QNT54580.1, QNS00181.1, QNS00205.1, QMU92448.1, QNG41397.1, QNG41337.1, QNG41301.1, QNG41277.1, QNG41265.1, QNG97427.1, QNG97403.1, QNL11198.1, QNL11138.1, QNO30384.1,
780	E780D	QNA40794.1
783	A783V	QOC60727.1, QNV70830.1
783	A783S	QKG88946.1
796	D796N	QNL24056.1
796	D796G	QNM94538.1
808	D808G	QOD06757.1, QNQ17069.1, QKU30329.1
808	D808V	QLL36193.1
812	P812S	QKG90614.1, QKV39659.1

818	I818V	QJA17276.1, QLK97843.1, QLK97831.1
822	L822F	QMI93446.1, QMT94216.1
826	V826L	QNV70974.1
827	T827A	QOC66113.1
830	D830H	QLK97867.1
830	D830Y	QMU91459.1
836	Q836P	QKG91034.1
836	Q836L	QNL12218.1
838	G838D	QJS57039.1, QKV39827.1, QKV39779.1, QKV39479.1, QKV39431.1, QKV39395.1, QKV39024.1, QLB39201.1
845	A845S	QNR99276.1, QNR99300.1, QJE38426.1, QJQ27937.1, QKU31961.1, QMI95329.1, QMI94765.1, QMI93482.1, QMU25443.1
845	A845D	QKG90974.1, QKG90290.1, QKG89654.1, QKG89510.1, QKG89234.1, QKG89198.1, QKG86786.1, QNA41610.1, QNA41574.1, QNA41502.1, QNA41418.1, QNA41394.1, QNA41250.1, QNA41118.1, QNA41094.1, QNA41046.1, QNA40974.1, QNA40854.1, QNA40794.1, QNA40782.1, QNA40698.1, QNA40578.1, QNA40386.1, QNA40110.1, QNA40026.1, QNA39642.1, QNA39486.1, QNA39450.1, ANA39438.1, QNA39367.1, QNA39235.1, QNA39223.1, QNA39151.1, QNA39115.1, QNA38971.1, QNA38719.1, QNA38671.1, QNA38575.1, QNA38407.1, QNA38299.1, QNA38263.1, QNA38143.1, QNA38131.1, QNA37591.1, QNA37543.1, QNA37423.1, QNA37219.1, QNA37147.1, QNA37087.1, QNA37063.1, QNA37015.1, QNA36847.1, QNA36775.1, QNA36559.1, QNA36535.1, QNA36367.1, QNA36187.1, QNA36163.1,
845	A845V	QKU30389.1, QKV35819.1
846	A846V	QKU30449.1, QNL24068.1
847	R847I	QMT91888.1
854	K854N	QOC61531.1, QOC61951.1, QOC62623.1, QNL11426.1
854	K854R	QJS57267.1
856	N856S	QLI51193.1
858	L858F	QNN87664.1
859	T859I	QNO32888.1, QJU11577.1, QJU70569.1, QKE46040.1, QKG88142.1, QKS67000.1, QKU33209.1, QKU32273.1, QKU32249.1, QMI99470.1, QMI92858.1, QMI92786.1, QMI92690.1, QMI92666.1, QMI92618.1, QMI92558.1, QMI92510.1, QMI92306.1, QMI92282.1, QMI92258.1, QMI92222.1, QMI92210.1, QMI91982.1, QMI91958.1, QMI91946.1, QMI91202.1, QMI91178.1, QMI91154.1, QNG41829.1,
867	D867N	QJC20714.1
879	A879V	QNQ17069.1, QLH00241.1
879	A879S	QJQ83944.1
880	A880S	QNS26546.1, QNS26558.1, QNS26570.1, QNS26582.1
893	A893V	QMT96172.1
893	A893E	QMT95128.1
900	M900L	QNA41646.1, QNA38743.1
918	E918V	QLM05967.1
922	L922F	QKV40259.1, QKV38964.1, QMS53411.1, QMS52692.1, QMS52261.1, QMS52237.1, QMS52201.1, QMS52009.1, QMS51733.1, QMS51685.1, QMS51625.1, QMT94048.1, QNL11642.1,

924	A924V	QLH00421.1
924	A924S	QNJ45998.1, QNJ45938.1
929	S929I	QJC20367.1, QJD48447.1, QJF77122.1, QLJ58205.1, QLJ58193.1, QLJ58133.1, QMT94408.1
936	D936Y	QNT54556.1, QNT08533.1, QNR99563.1, QNS00181.1, QNS00457.1, QNS00553.1, QNS00601.1, QNS00697.1, QNN95485.1, QNO29784.1, QNO29796.1, QIS30615.1, QLK98227.1, QNC04415.1
936	D936H	QMS52549.1, QMS52477.1, QMT95392.1, QMT94924.1, QMT94468.1, QMT93676.1, QMT93172.1, QMT92740.1, QMT56252.1, QMT55592.1, QMT51997.1, QMT51529.1
938	L938F	QMI91910.1
939	S939F	QIZ64530.1, QIZ64732.1, QKE49829.1, QKE49793.1, QKE49544.1, QMS53843.1, QMS53639.1, QMS52728.1, QMT95620.1, QMT95332.1, QMT94216.1, QNK39033.1, QNK39045.1, QNK39057.1, QNK39069.1, QNL36370.1, QNL36358.1,
940	S940F	QOC60739.1, QNN95521.1, QKS65656.1, QKV40595.1, QMT57548.1, QMT52813.1
941	T941I	QMI91946.1, QNL36358.1
946	G946V	QNG41433.1
958	A958S	QLL36145.1, QNA39043.1
969	N969S	QMU25275.1
981	L981F	QJX70519.1
1006	T1006I	QMT96928.1
1008	V1008T	QJC20714.1
1009	T1009I	QMI94561.1, QMU94140.1
1020	A1020V	QLC94580.1
1052	F1052L	QMJ00945.1
1053	P1053T	QMT91240.1
1055	S1055A	QNN86157.1
1063	L1063F	QOE45143.1, QNT08749.1, QNT08761.1, QNT08773.1, QMU25419.1, QMU25431.1, QNA41358.1, QNL23733.1
1065	V1065L	QJA42177.1, QJA42189.1
1068	V1068F	QNA39762.1
1069	P1069S	QNL24032.1
1070	A1070S	QOD06637.1, QNT54604.1, QNT54616.1, QNT54640.1, QNT54676.1, QNS00133.1, QNS00841.1
1070	A1070V	QMI90914.1
1071	Q1071H	QMT93892.1, QMT50125.1
1072	E1072V	QMJ00657.1
1073	K1073N	QNV70542.1, QNR51160.1, QMT53385.1, QNA39990.1
1078	A1078S	QOC62215.1, QIZ64470.1, QIZ64482.1, QKU31145.1, QKU28894.1, QMI97827.1, QNA41286.1
1078	A1078V	QIS61254.1, QLC94748.1, QLC92852.1
1078	A1078T	QNO30432.1
1079	P1079S	QOE44536.1, QOE44584.1
1083	H1083Y	QNS27340.1, QNL23912.1
1085	G1085R	QKU31397.1, QKU31517.1, QMI93386.1

1086	K1086N	QMT92116.1
1087	A1087S	QNO32780.1
1091	R1091L	QLC47920.1
1101	H1101Y	QJS59434.1, QJS54910.1, QJS54898.1, QMS51649.1, QMT27688.1
1103	F1103L	QOD06601.1
1104	V1104L	QNS29261.1, QNS29273.1, QLH01453.1, QND76970.1
1107	R1107S	QOC62719.1, QOC62803.1, QOC62839.1, QOC62911.1
1111	E1111K	QNA39319.1
1112	P1112T	QNO32360.1
1112	P1112L	QLI51505.1
1116	T1116N	QNL12206.1, QNL12194.1, QNL12170.1
1118	D1118Y	QKG89366.1, QMI98535.1, QMI97479.1, QMI95902.1
1120	T1120I	QKG90434.1
1122	V1122L	QOC61531.1, QOC61951.1, QOC62263.1, QOC62575.1, QOC62623.1, QLG97879.1, QLG97759.1, QLG97711.1, QNL12866.1, QNL11426.1
1123	S1123F	QKE45025.1
1124	G1124V	QOC60967.1, QOC61831.1, QLL35438.1, QMT95224.1, QMT94132.1, QMT92044.1, QMT54465.1, QMT50545.1, QNA39486.1,
1129	V1129A	QKG86529.1, QKG64075.1
1130	I1130M	QMJ20889.1
1136	T1136I	QKV40463.1, QKV39923.1, QMS53351.1, QMS53075.1
1139	D1139H	QLI27824.1
1141	L1141F	QKV35279.1, QMI99218.1, QMI91814.1, QMI91082.1
1146	D1146H	QMU91687.1
1147	S1147L	QMU25419.1
1153	D1153Y	QOD06385.1, QNS00109.1, QNN95809.1, QNN96073.1, QNN96109.1, QMT54848.1
1162	P1162S	QNT54592.1, QKT21158.1, QKV35783.1, QLC91196.1, QMJ00945.1
1162	P1162Q	QMI99710.1, QMI98379.1
1163	D1163Y	QMJ00897.1, QMI93949.1
1167	G1167V	QNS27844.1, QMS54599.1
1168	D1168H	QIS60978.1
1176	V1176F	QNS17744.1, QNO31748.1, QNL24032.1, QNL24056.1, QMU92736.1, QLM05835.1
1177	V1177L	QNI25236.1
1180	Q1180K	QOC62203.1
1187	N1187Y	QOD06373.1, QOD06445.1, QNU10716.1, QNU11686.1, QNU12224.1, QNO31964.1, QNO32000.1, QNO32024.1, QNO32516.1, QNO32576.1, QNO32660.1, QNO32960.1, QNN95413.1, QNN95749.1, QNN96049.1, QNG42868.1, QNE12704.1, QNE12872.1, QNE12896.1, QMU92059.1, QMU92119.1, QMU26151.1, QMT96868.1, QMT96952.1
1187	N1187D	QNN86884.1
1189	V1189I	QNO32720.1, QNO32792.1, QNO33188.1
1191	K1191N	QNA36835.1, QLC46205.1,
1192	N1192T	QII57268.2
1195	E1195Q	QKG91082.1

1202	E1202Q	QMJ01173.1
1203	L1203F	QKC05068.1, QKC05080.1, QJA17596.1, QJA17608.1, QJA17620.1
1205	K1205N	QNN87388.1, QNN87400.1, QNN87424.1, QNN87436.1, QNN87448.1, QKE45860.1, QJS54814.1
1207	E1207A	QMI97312.1, QMI99590.1
1219	G1219V	QNS27146.1
1219	G1219S	QMI90736.1
1221	I1221T	QMT52849.1, QMT57224.1
1228	V1228L	QNM81069.1, QNM81081.1, QNA36223.1, QNA36967.1, QNA37339.1, QNA37555.1, QNA38215.1, QNA39211.1, QNA40290.1, QNA41274.1, QNA41406.1, QLC93524.1, QKG86966.1, QJU11589.1
1229	M1229I	QNO32072.1, QNO32132.1, QNI23413.1, QMU92556.1, QMU92568.1, QMU92640.1, QMU92700.1, QMU92712.1, QMT53277.1, QMT53325.1, QMT53421.1, QMT53985.1, QMT54585.1, QMT91252.1, QLM36061.1,
1230	V1230L	QIZ64685.1
1231	T1231A	QOC66077.1
1231	T1231I	QMI91274.1
1232	I1232F	QOC62215.1
1235	C1235F	QOE45323.1, QOC61411.1, QMT49321.1
1235	C1235S	QNA34962.1
1237	M1237V	QOE45143.1, QNQ15608.1, QMU25431.1
1237	M1237I	QOC60775.1, QNT54628.1, QJD48279.1
1237	M1237T	QKQ63760.1
1238	T1238I	QNO33104.1, QMU91747.1
1242	S1242I	QNS00517.1
1243	C1243F	QNN95197.1
1245	K1245N	QLM05631.1
1247	C1247F	QOC61243.1, QJD48915.1
1248	C1248F	QOC61531.1, QOC61951.1, QOC62623.1, QJD25193.1
1248	C1248R	QNN86265.1
1250	C1250F	QKG87470.1, QKG89582.1
1251	G1251R	QMT49705.1, QMT53493.1, QMT54309.1, QMT93832.1, QMT93904.1
1252	S1252F	QNQ17021.1, QNN87160.1, QNN87172.1, QNN87184.1, QNN87196.1, QNN87208.1, QNN87412.1, QNN87460.1
1259	D1259H	QJI54323.1, QIS60582.1
1261	S1261F	QKE45025.1
1263	P1263L	QNN87316.1, QNN87328.1, QNN87340.1, QNN87352.1, QNN87364.1, QNN87376.1, QMU93168.1, QMU93636.1, QMU93792.1, QMU94284.1, QMI91142.1, QMI91154.1, QMI91166.1, QMI91178.1, QMI91202.1, QMI91430.1, QMI91910.1, QMI91946.1, QMI91958.1, QMI91982.1, QMI92198.1, QMI92210.1, QMI92222.1, QMI92258.1, QMI92270.1, QMI92282.1, QMI92294.1, QMI92306.1, QMI92354.1, QMI92414.1, QMI92426.1, QMI92438.1, QMI92462.1, QMI92510.1, QMI92558.1, QMI92582.1, QMI92594.1, QMI92606.1, QMI92618.1, QMI92642.1, QMI92654.1, QMI92666.1, QMI92690.1, QMI92726.1, QMI92738.1, QMI92750.1, QMI92762.1, QMI92786.1, QMI92858.1, QMI99470.1,

		QMI99674.1, QLC92372.1, QKU32249.1, QKU33209.1, QKV06703.1, QKS67000.1, QKE46040.1, QJU70569.1, QJU11577.1,
1264	V1264L	QKG88694.1
INCOMPLETE	INCOMPLETE	QNS30341.1, QNO40644.1, QNN95065.1, QNN87100.1, QNL10826.1, QNI24156.1, QMU93708.1, QMU93756.1, QMU94536.1, QMU94680.1, QMT27664.1, QMI99170.1, QLF95280.1, QJU11517.1, QJS54742.1, QJF76750.1,

List of mutation	Occurrence of mutation (Number of isolates that showed mutation)
F2L	1
V3F	1
L5I	1
L7V	1
P9S	1
P9L	1
S12P	1
S12F	1
C15F	1
V16F	1
N17K	1
R21T	1
R21I	1
T22A	1
Q23K	1
P26S	1
P26L	1
T33I	1
R34C	1
K41I	1
L54W	1
F55I	1
P57L	1
V62L	1
H66R	1
I68T	1
G72V	1
T73I	1
G75S	1
K77I	1
R78G	1
F79L	1
N87Y	1
D88N	1
D88A	1
V90F	1
R102G	1
L118F	1
E132D	1
K133R	1
Q134R	1
C136R	1
L141V	1

G142V	1
V143F	1
K147E	1
W152R	1
W152L	1
M153V	1
E154V	1
S155I	1
R158S	1
P174S	1
M177K	1
D178G	1
D178N	1
G181A	1
Q183H	1
F186S	1
L189F	1
R190K	1
V213L	1
D215G	1
P217S	1
Q218L	1
A222P	1
V227L	1
D228H	1
L229F	1
Q239R	1
T240I	1
L242F	1
A243V	1
H245R	1
R246K	1
S247N	1
Y248S	1
G252S	1
S255F	1
G261F	1
G261V	1
P272S	1
E281Q	1
T284I	1
A288S	1
V289I	1
A292S	1

L293V	1
D294E	1
P295S	1
T298G	1
F306L	1
Q314H	1
T345S	1
A348T	1
A348S	1
R357K	1
F374L	1
V407I	1
G413R	1
L441I	1
G446V	1
F456Y	1
R457K	1
K458Q	1
A475V	1
T478K	1
P479L	1
E484Q	1
Q493L	1
S494P	1
G503F	1
Y508H	1
H519Q	1
P521S	1
K529N	1
K529E	1
G545S	1
T573I	1
D574Y	1
P579S	1
L585F	1
I598V	1
N603H	1
N603S	1
Q613H	1
V615F	1
P621S	1
V622I	1
V622A	1
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A623S	1
H625Y	1
A626V	1
P631L	1
W633R	1
R634L	1
G639V	1
A647V	1
N658Y	1
A668S	1
A668V	1
A672V	1
T676S	1
T676I	1
T678I	1
P681H	1
R682W	1
A684T	1
A684S	1
V687L	1
A688S	1
S691F	1
N703D	1
A706V	1
I714M	1
T719I	1
I720V	1
T724A	1
M731I	1
D745G	1
L754F	1
R765S	1
R765H	1
T768I	1
G769A	1
E780D	1
A783S	1
D796N	1
D796G	1
D808V	1
V826L	1
T827A	1
D830H	1
D830Y	1

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K854R	1
N856S	1
L858F	1
D867N	1
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A893V	1
A893E	1
E918V	1
A924V	1
L938F	1
G946V	1
N969S	1
L981F	1
T1006I	1
V1008T	1
A1020V	1
F1052L	1
P1053T	1
S1055A	1
V1068F	1
P1069S	1
A1070V	1
E1072V	1
A1078T	1
K1086N	1
A1087S	1
R1091L	1
F1103L	1
E1111K	1
P1112T	1
P1112L	1
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S1123F	1
I1130M	1
D1139H	1
D1146H	1
S1147L	1
D1168H	1
V1177L	1
Q1180K	1
N1187D	1

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E1202Q	1
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G1219S	1
V1230L	1
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T1231I	1
I1232F	1
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C1243F	1
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C1248R	1
S1261F	1
V1264L	1
P25S	2
T51I	2
D80N	2
D88Y	2
E96D	2
R102I	2
Y144H	2
S151I	2
F157L	2
Q173K	2
L176F	2
M177I	2
I203M	2
H245Y	2
G252D	2
A264S	2
V367F	2
R273S	2
D287G	2
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T315I	2
Q321L	2
P330S	2
P384L	2
V395I	2
Y505H	2
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A522V	2
L552F	2
T553I	2
K558N	2
D586E	2
S596I	2
Q613R	2
T618A	2
A623T	2
A623I	2
A647S	2
A653V	2
S673I	2
Q677R	2
S689I	2
T732I	2
N751D	2
R765L	2
A771S	2
A783V	2
P812S	2
L822F	2
A845V	2
A846V	2
A879V	2
M900L	2
A924S	2
T941I	2
A958S	2
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V1065L	2
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H1083Y	2
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P1162Q	2
D1163Y	2
G1167V	2
K1191N	2
E1207A	2
I1221T	2
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C1247F	2
C1250F	2

D1259H	2
T22N	3
A27V	3
S50L	3
A67S	3
H69Y	3
S71F	3
T76I	3
S98F	3
Y145H	3
H146Y	3
G181V	3
R214L	3
S254F	3
W258L	3
G261R	3
E309Q	3
T323I	3
S477N	3
A522G	3
I584V	3
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A688V	3
S698L	3
T724K	3
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M1237V	3
M1237I	3
T29I	4
D88E	4
I105L	4
L141F	4
N148S	4
M153T	4

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Q314K	4
A570V	4
S704L	4
N751K	4
T778I	4
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A880S	4
K1073N	4
V1104L	4
R1107S	4
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C1248F	4
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A27S	5
M153I	5
T547I	5
A701V	5
H1101Y	5
P1162S	5
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G1251R	5
L18F	6
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T95A	6
K97T	6
A243S	6
A262S	6
A411S	6
V622F	6
T638A	6
Q675H	6
S940F	6
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V1176F	6
A222V	7
D253Y	7
T307I	7
T572I	7
P631S	7
S929I	7
A1070S	7

A1078S	7
K1205N	7
Q52H	8
D215Y	8
G476S	8
G838D	8
L1063F	8
S1252F	8
Y144F	9
N149Y	9
L216F	9
V308L	9
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A845S	9
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Q52L	10
G142S	10
R403K	10
H655Y	10
V1122L	10
F32L	11
D80Y	11
A522S	12
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L922F	13
E554D	14
D936Y	14
V1228L	14
H49Y	15
M1229I	15
Q14H	16
D253G	16
INCOMPLETE	16
G75V	17
S939F	17
E180V	18
A344S	18
Q677H	19
D138H	22
F220L	22
Q675R	23
N1187Y	24
V6F	25

V483A	26
L54F	28
S221L	29
T859I	29
P681L	49
E780Q	53
A845D	57
P1263L	59
L5F	115
D614G	9023