

**Table S1.** PCR conditions, primers and amplicon length of *Branchiostoma lanceolatum* genes cloned in this study. bp: base pairs.

Gene	Forward primer/Reverse primer	Length	Annealing temperature
<i>GlyT</i>	5'-ACAACGCCTGGAACACCGAGAACT-3' 5'-GAAGAAGGCCAGGACCATCAGAGA-3'	911 bp	54°C
<i>GlyT2.1</i>	5'-TCCCCTACCTCGCTTACCAAAATG-3' 5'-AGGCGGCAGACAGGGAGTAGAAGA-3'	825 bp	58°C
<i>GlyT2.2</i>	5'-CGGCGGAGGTGCGTTTTTGAT-3' 5'-GAGGGGGTAGGTGCCAGCGTAAGA-3'	1159 bp	59°C
<i>VGAT</i>	5'-GGTCCAGTGTTTGTACGAGGA-3' 5'-GATCCCACCTTCAGCTTCATGT-3'	947 bp	54°C

Each primer set is listed as forward primer in the first and reverse primer in the second line. Each PCR reaction was carried out with 35 thermal cycles.

**Table S2.** Multiple sequence alignment of amphioxus glycine transporter proteins. Bbelcheri: *Branchiostoma belcheri*; Bfloridae: *Branchiostoma floridae*; Blanceolatum: *Branchiostoma lanceolatum*.

	1		115
Bfloridae GlyT	(1)	-----MESNGDI--RDMKREASIPLSVQTDG-----EEEFERDFAKNGRGQWGAKLDFMLSMGYCVGLGNVWRFPYLCYRNGGGAFLIPYLLFITFA	
Blanceolatum GlyT	(1)	-----MESNGDI--IKDMKREASIPLSVQDEE-----EEEFERDFAANRGQWGAKLDFMLSMGYCVGLGNVWRFPYLCYRNGGGAFLIPYLLFITFA	
Bbelcheri GlyTisoformX1	(1)	-----MESN-----GEMKREASIPLSVQTHE-----EEEFERDFAKNGRGQWGAKLDFMLSMGYCVGLGNVWRFPYLCYRNGGGAFLIPYLLFITFA	
Bbelcheri GlyTisoformX2	(1)	-----	
Bbelcheri GlyTisoformX3	(1)	-----	
Bfloridae GlyT2.1isoformX1	(1)	-----MTGDTPMAGNEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Bfloridae GlyT2.1isoformX2	(1)	-----MTGDTPMAGNEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Blanceolatum GlyT2.1	(1)	-----MTGDTP-----NEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Bbelcheri GlyT2.1isoformX1	(1)	-----MTGDTPMAGNEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Bbelcheri GlyT2.1isoformX2	(1)	-----MTGDTPMAGNEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Bfloridae GlyT2.1isoformX3	(1)	-----MTGDTPMAGNEQPTLEKQLDPDGNVYKFENG-----SVAVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYQNGGGAFLVPYITIMLACA	
Bfloridae GlyT2.2	(1)	-----MDNPALQAGDAGNYNATNEPYTNRDGKWKLSYDPEPNAVSQMDIVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYENGGGAFLIPYITIMLVFA	
Blanceolatum GlyT2.2	(1)	-----MDNPGLQDAGAAYNATNEPYTARDGKWKLSYDPEPNAVSQMDIVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYENGGGAFLIPYITIMLVFA	
Bbelcheri GlyT2.2isoformX1	(1)	MVTTTMTTTSIPMGNTTDEKQPLPNGPPQYTSRDKGKWKLSYDPEPNAVSQMDIVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYENGGGAFLIPYITIMLVFA	
Bbelcheri GlyT2.2isoformX3	(1)	-----MDFPDENVSLLEAERLAKYTSRDKGKWKLSYDPEPNAVSQMDIVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYENGGGAFLIPYITIMLVFA	
Bbelcheri GlyT2.2isoformX2	(1)	-----MDNPGLQAGEAGNYNATNEPYTSRDKGKWKLSYDPEPNAVSQMDIVEDDGDENKERGNWSNKLDFILSCVGYAVGLGNVWRFPYLAYENGGGAFLIPYITIMLVFA	
	116		230
Bfloridae GlyT	(91)	GLPIFMMEMSFQGYGSLGPIITIWRACPPIFKGIGYGMVVVSGLVCIYYNVIIAWTIHLFLFSSTFSAALPWASCDNAWNTENTLAAN-----	
Blanceolatum GlyT	(91)	GLPIFMMEMSFQGYGSLGPIITIWRACPPIFKGIGYGMVVVSGLVCIYYNVIIAWTIHLFLFSSTFSAALPWATCDNAWNTENTLAAN-----	
Bbelcheri GlyTisoformX1	(87)	GLPIFMMEMSFQGYGSLGPIITIWRACPPIFKGIGYGMVVVSGLVCIYYNVIIAWTIHLFLFSSTFSAALPWASCDNPWNTENTLAAN-----	
Bbelcheri GlyTisoformX2	(1)	-----MPMCTTGIGYGMVVVSGLVCIYYNVIIAWTIHLFLFSSTFSAALPWASCDNPWNTENTLAAN-----	
Bbelcheri GlyTisoformX3	(1)	-----MPMCTTG-----IGYGMVVVSGLVCIYYNVIIAWTIHLFLFSSTFSAALPWASCDNPWNTENTLAAN-----	
Bfloridae GlyT2.1isoformX1	(94)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPECATKDACQQTVNATFQNTILGGEMYSMFGLYDENG	
Bfloridae GlyT2.1isoformX2	(94)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPECATK-ACQQTVNATFQNTILGGEMYSMFGLYDENG	
Blanceolatum GlyT2.1	(91)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPGCATK-ACQQTVNATFQNTILGGEMYSMFGMYDENG	
Bbelcheri GlyT2.1isoformX1	(94)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPECATKDACQQTVNATFQNTILGGELYSMFGLYDENG	
Bbelcheri GlyT2.1isoformX2	(94)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPECATK-ACQQTVNATFQNTILGGELYSMFGLYDENG	
Bfloridae GlyT2.1isoformX3	(94)	GLPIFFLELAYGQFSSQGGPVGVWKAIPLLQGVGVCMVCVSFLVGIYYNVIIAYALFYLFASFTSYLPWSDCNPNWNTPECATKDACQQTVNATFQNTILGGEMYSMFGLYDENG	
Bfloridae GlyT2.2	(104)	GLPIFLELTSLGQFASQGGPIRVWRCLPLFGQIGYTVQVIASALVGIYYNCIIAYTLFYLFSSFTSDLPWRICDNTWNTGDCVDT-----NSLAN	
Blanceolatum GlyT2.2	(104)	GLPIFLELTSLGQFASQGGPIRVWRCLPLFGQIGYTVQVIASALVGIYYNCIIAYTLFYLFSSFTSDLPWRICDNTWNTADCVDT-----NSLAN	
Bbelcheri GlyT2.2isoformX1	(116)	GLPIFLELTSLGQFASQGGPIRVWRCLPLFGQIGYTVQVIASALVGIYYNCIIAYTLFYLFSSFTSDLPWRICDNTWNTGDCVDT-----NSLKN	
Bbelcheri GlyT2.2isoformX3	(103)	GLPIFLELTSLGQFASQGGPIRVWRCLPLFGQIGYTVQVIASALVGIYYNCIIAYTLFYLFSSFTSDLPWRICDNTWNTGDCVDT-----NSLKN	
Bbelcheri GlyT2.2isoformX2	(104)	GLPIFLELTSLGQFASQGGPIRVWRCLPLFGQIGYTVQVIASALVGIYYNCIIAYTLFYLFSSFTSDLPWRICDNTWNTGDCVDT-----NSLKN	
	231		345
Bfloridae GlyT	(176)	--HSALEENVTRISPTQEYWNRRVLGISAGIEETGTQWELALCLLGAWVVVFCLFKGKISSGKVVFYFATFPYVMLLIVLFLRGVLTLEGAGKGLVYYLTFDFSRLADSQVWYDA	
Blanceolatum GlyT	(176)	--HSALEENVTRISPTQEYWNRRVLGISAGIEETGTQWELALCLLGAWVVVFCLFKGKISSGKVVFYFATFPYVMLLIVLFLRGVLTLEGAGKGLVYYLTFDFSRLADSQVWYDA	
Bbelcheri GlyTisoformX1	(172)	--HSALEENVTRISPTQEYWNRRVLGISAGIEETGTQWELALCLLGAWVVVFCLFKGKISSGKVVFYFATFPYVMLLIVLFLRGVLTLEGAGKGLVYYLTFDFSRLADSQVWYDA	
Bbelcheri GlyTisoformX2	(64)	--HSALEENVTRISPTQEYWNRRVLGISAGIEETGTQWELALCLLGAWVVVFCLFKGKISSGKVVFYFATFPYVMLLIVLFLRGVLTLEGAGKGLVYYLTFDFSRLADSQVWYDA	
Bbelcheri GlyTisoformX3	(62)	--HSALEENVTRISPTQEYWNRRVLGISAGIEETGTQWELALCLLGAWVVVFCLFKGKISSGKVVFYFATFPYVMLLIVLFLRGVLTLEGAGKGLVYYLTFDFSRLADSQVWYDA	
Bfloridae GlyT2.1isoformX1	(209)	VVNGTYCGDKGRTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSLCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Bfloridae GlyT2.1isoformX2	(208)	VVNGTYCGDKGRTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSLCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Blanceolatum GlyT2.1	(205)	VVNGTYCGDKMRTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSSMCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Bbelcheri GlyT2.1isoformX1	(209)	VVNGTFCGNKEKTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSLCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Bbelcheri GlyT2.1isoformX2	(208)	VVNGTFCGNKEKTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSLCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Bfloridae GlyT2.1isoformX3	(209)	VVNGTYCGDKGRTPSEDYWNHYALEITPGIHEPGGKIKWQALSLVLAWVIVFSLCKGKISSGKVVFYFATFPYFVLVILLIVGVLDQGHLDGVLFFITPKWERLKEAKVWKDA	
Bfloridae GlyT2.2	(192)	WT-G--N-LSDRVSPSEYYWDRYMLSRSGIGEPVTVKKQALCELLAWIVVYFSLIKGKISSGKVVFYFATFPYVLLILLIRGVTLTGALGKIFFIVPKWSQIANAKVWKDA	
Blanceolatum GlyT2.2	(192)	WT-G--N-LSDRVSPSEYYWDRYMLSRSGIGEPVTVKKQALCELLAWIVVYFSLIKGKISSGKVVFYFATFPYVLLILLIRGVTLTGALGKIFFIVPKWSQIANAKVWKDA	
Bbelcheri GlyT2.2isoformX1	(204)	WT-G--N-ISDRVSPSEYYWDRYMLSRSGIGEPVTVKKQALCELLAWIVVYFSLIKGKISSGKVVFYFATFPYVLLILLIRGVTLTGALGKIFFIVPKWSQIANAKVWKDA	
Bbelcheri GlyT2.2isoformX3	(191)	WT-G--N-ISDRVSPSEYYWDRYMLSRSGIGEPVTVKKQALCELLAWIVVYFSLIKGKISSGKVVFYFATFPYVLLILLIRGVTLTGALGKIFFIVPKWSQIANAKVWKDA	
Bbelcheri GlyT2.2isoformX2	(192)	WT-G--N-ISDRVSPSEYYWDRYMLSRSGIGEPVTVKKQALCELLAWIVVYFSLIKGKISSGKVVFYFATFPYVLLILLIRGVTLTGALGKIFFIVPKWSQIANAKVWKDA	

		346		460							
Bfloridae GlyT	(289)	ASQIFYSLGIAFGGTQVMASYNKFNNTNRD	SVFTALSNCTSVFAGVVVFSILGHMAHKLDMVDKDVVANGPGLVFFVAYPEALTLLPVAPLWSVLFFFMIFFTVGLD	TFVMLET							
Blanceolatum GlyT	(289)	ASQIFYSLGIAFGGTQVMASYNKFNNTNRD	SVFTALSNCTSVFAGVVVFSILGHMAHKLDMVDKDVVANGPGLVFFVAYPEALTLLPVAPLWSVLFFFMIFFTVGLD	TFVMLET							
Bbelcheri GlyTisoformX1	(285)	ASQIFYSLGIAFGGTQVMASYNKFNNTNRD	SVFTALSNCTSVFAGVVVFSILGHMAHKLDMVDKDVVANGPGLVFFVAYPEALTLLPVAPLWSVLFFFMIFFTVGLD	TFVMLET							
Bbelcheri GlyTisoformX2	(177)	ASQIFYSLGIAFGGTQVMASYNKFNNTNRD	SVFTALSNCTSVFAGVVVFSILGHMAHKLDMVDKDVVANGPGLVFFVAYPEALTLLPVAPLWSVLFFFMIFFTVGLD	TFVMLET							
Bbelcheri GlyTisoformX3	(175)	ASQIFYSLGIAFGGTQVMASYNKFNNTNRD	SVFTALSNCTSVFAGVVVFSILGHMAHKLDMVDKDVVANGPGLVFFVAYPEALTLLPVAPLWSVLFFFMIFFTVGLD	TFVMLET							
Bfloridae GlyT2.1isoformX1	(324)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Bfloridae GlyT2.1isoformX2	(323)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Blanceolatum GlyT2.1	(320)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Bbelcheri GlyT2.1isoformX1	(324)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Bbelcheri GlyT2.1isoformX2	(323)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Bfloridae GlyT2.1isoformX3	(324)	ATQIFYSLSAAWGGLITMASYNRFQNNCYKDTLIVSLMNCSTSI	FAGFVIFSI	LGFMAKQIGVDVDDVAASGPGLAFTIAYPEALT	KLVPVFIWAILFFFLMLTLGLD	TQFAIET					
Bfloridae GlyT2.2	(303)	AAQIFFSLSAAWGGLLTLASYNKFNNTIHDALIVALTNCATS	VFAGFVIFSI	LGHMAKLINVTIPEVAKSGFGLAFVAYPEALT	LLPVSPFLWAILFFFLMLFTLGLD	SQFTIVET					
Blanceolatum GlyT2.2	(303)	AAQIFFSLSAAWGGLLTLASYNKFNNTIHDALIVALTNCATS	VFAGFVIFSI	LGHMAKLINVTIPEVAKSGFGLAFVAYPEALT	LLPVSPFLWAILFFFLMLFTLGLD	SQFTIVET					
Bbelcheri GlyT2.2isoformX1	(315)	AAQIFFSLSAAWGGLLTLASYNKFNNTIHDALIVALTNCATS	VFAGFVIFSI	LGHMAKLINVTIPEVAKSGFGLAFVAYPEALT	LLPVSPFLWAILFFFLMLFTLGLD	SQFTIVET					
Bbelcheri GlyT2.2isoformX3	(302)	AAQIFFSLSAAWGGLLTLASYNKFNNTIHDALIVALTNCATS	VFAGFVIFSI	LGHMAKLINVTIPEVAKSGFGLAFVAYPEALT	LLPVSPFLWAILFFFLMLFTLGLD	SQFTIVET					
Bbelcheri Glyt2.2isoformX2	(303)	AAQIFFSLSAAWGGLLTLASYNKFNNTIHDALIVALTNCATS	VFAGFVIFSI	LGHMAKLINVTIPEVAKSGFGLAFVAYPEALT	LLPVSPFLWAILFFFLMLFTLGLD	SQFTIVET					
		461		575							
Bfloridae GlyT	(404)	CITGICDEFFPHIMQ-KYKTWVLLVSVVMYFLGLTCVTNAGMYWLNLMDWYSAGFSLMVLAFFMCAISVWYGF	QRCCKNVQEMIGYQPNYYFKICWAVISPMVLLFIVVFSMVV								
Blanceolatum GlyT	(404)	CITGICDEFFPHIMQ-KYKTWVLLVSVVMYFLGLTCVTNAGMYWLNLMDWYSAGFSLMVLAFFMCAISVWYGF	QRCCKNVQEMIGYQPNYYFKICWAVISPMVLLFIVVFSMVV								
Bbelcheri GlyTisoformX1	(400)	CITGICDEFFPHIMQ-KYKTWVLLVSVVMYFLGLTCVTNAGMYWLNLMDWYSAGFSLMVLAFFMCAISVWYGF	QRCCKNVQEMIGYQPNYYFKICWAVISPMVLLFIVVFSMVV								
Bbelcheri GlyTisoformX2	(292)	CITGICDEFFPHIMQ-KYKTWVLLVSVVMYFLGLTCVTNAGMYWLNLMDWYSAGFSLMVLAFFMCAISVWYGF	QRCCKNVQEMIGYQPNYYFKICWAVISPMVLLFIVVFSMVV								
Bbelcheri GlyTisoformX3	(290)	CITGICDEFFPHIMQ-KYKTWVLLVSVVMYFLGLTCVTNAGMYWLNLMDWYSAGFSLMVLAFFMCAISVWYGF	QRCCKNVQEMIGYQPNYYFKICWAVISPMVLLFIVVFSMVV								
Bfloridae GlyT2.1isoformX1	(439)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Bfloridae GlyT2.1isoformX2	(438)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Blanceolatum GlyT2.1	(435)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Bbelcheri GlyT2.1isoformX1	(439)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Bbelcheri GlyT2.1isoformX2	(438)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Bfloridae GlyT2.1isoformX3	(439)	VVTTTCDDT	FKIGHAGIKKTLSTLGFCLVMEFLGLLGVTRSGLYWVNLIDNFAASYSLMVIAITEMLGISWVYGINNFCRDIEMMVGF	KPGWYWKATWAVIS	SPGLLIFIFIFSLVE						
Bfloridae GlyT2.2	(418)	VATAICD	GWPTLLR-QKKWLVMCLTAVCCYLLAMPCLTHAGIYHVQLIDS	SYAGTYPLIIIVAIMECIGISYLYGLRRFCKDIA	MMAGYQPNYYWQANWAFITPALITFVLIFS	SFVF					
Blanceolatum GlyT2.2	(418)	VATAICD	GWPTLLR-QKKWLVMCLTAVCCYLLAMPCLTHAGIYHVQLIDS	SYAGTYPLIIIVAIMECIGISYLYGLRRFCKDIA	MMAGYQPNYYWQANWAFITPALITFVLIFS	SFVF					
Bbelcheri GlyT2.2isoformX1	(430)	VATAICD	GWPTLLR-QKKWLVMCLTAVCCYLLAMPCLTHAGIYHVQLIDS	SYAGTYPLIIIVAIMECIGISYLYGLRRFCKDIA	MMAGYQPNYYWQANWAFITPALITFVLIFS	SFVF					
Bbelcheri GlyT2.2isoformX3	(417)	VATAICD	GWPTLLR-QKKWLVMCLTAVCCYLLAMPCLTHAGIYHVQLIDS	SYAGTYPLIIIVAIMECIGISYLYGLRRFCKDIA	MMAGYQPNYYWQANWAFITPALITFVLIFS	SFVF					
Bbelcheri GlyT2.2isoformX2	(418)	VATAICD	GWPTLLR-QKKWLVMCLTAVCCYLLAMPCLTHAGIYHVQLIDS	SYAGTYPLIIIVAIMECIGISYLYGLRRFCKDIA	MMAGYQPNYYWQANWAFITPALITFVLIFS	SFVF					
		576		678							
Bfloridae GlyT	(518)	HVPAYYGP-YQYP	NAICIGWFMALLSIIMVPLFVLAIIKAKG-SFMERLR	YACESSDDWGPA	LVNASATSSQ---SDEAEKKI	PLEDTEGKGS	STYISTI				
Blanceolatum GlyT	(518)	HVPAYYGS-YQYP	GWAVCIGWLMALLSIIMVPLFVLAIIKAKG-SFMERLR	YACESSDNWGPA	LVNASATSSQSD-DEQEKV	PLRDTEGND	NSYISTI				
Bbelcheri GlyTisoformX1	(514)	HVPAYYGD-YQYP	GWACIGWFMALLSIIMVPLFAVLAIIKAKG-SFMERLR	YACESSDDWGPA	LVSTSSAESSQS---EPEKKV	PLQDTEGTG	NSYISTI				
Bbelcheri GlyTisoformX2	(406)	HVPAYYGD-YQYP	GWACIGWFMALLSIIMVPLFAVLAIIKAKG-SFMERLR	YACESSDDWGPA	LVSTSSAESSQS---EPEKKV	PLQDTEGTG	NSYISTI				
Bbelcheri GlyTisoformX3	(404)	HVPAYYGD-YQYP	GWACIGWFMALLSIIMVPLFAVLAIIKAKG-SFMERLR	YACESSDDWGPA	LVSTSSAESSQS---EPEKKV	PLQDTEGTG	NSYISTI				
Bfloridae GlyT2.1isoformX1	(554)	YKPPPLNETYI	YPGWSQAIAWLMVLSGTIWI	PVIAIYRVVTS	PGDTFMERLR	LFACKPAPDWGPYLNQHRALD	PERYKPKP	PSKQIVNDPYADIGTKI	----		
Bfloridae GlyT2.1isoformX2	(553)	YKPPPLNETYI	YPGWSQAIAWLMVLSGTIWI	PVIAIYRVVTS	PGDTFMERLR	LFACKPAPDWGPYLNQHRALD	PERYKPKP	PSKQIVNDPYADIGTKI	----		
Blanceolatum GlyT2.1	(550)	YTPPLNDTYI	YPGWSQAVAWLMVLEGTIWI	PAIAIYRI	AVSPGDTFMERLR	LFACKPAPDWGPYLNQHRALD	SERYKPKP	PSKQIVNDPYADVGT	TKI		
Bbelcheri GlyT2.1isoformX1	(554)	YKAPPLNDTYI	YPGWSQAIAWLMVLEGTIWI	PAIAIYRI	VTS	PGDTFMERLR	LFACKPAPDWGPYLNQHRALD	SERYQAKP	PSKQIVNDPYADIGTKI	----	
Bbelcheri GlyT2.1isoformX2	(553)	YKAPPLNDTYI	YPGWSQAIAWLMVLEGTIWI	PAIAIYRI	VTS	PGDTFMERLR	LFACKPAPDWGPYLNQHRALD	SERYQAKP	PSKQIVNDPYADIGTKI	----	
Bfloridae GlyT2.1isoformX3	(554)	YKPPPLNETYI	YPGWSQAIAWLMVLSGTIWI	PVIAIYRVVTS	PGDTFMERLR	LFACKPAPDWGPYLNQYRAH	-----	-----	-----	-----	
Bfloridae GlyT2.2	(532)	HEDVSYGD-YEYPL	WAVTLGNLILVFCAIWI	PGVAIFWLV	ITPG-SFMERLR	LRKVTSP	TTTWGPHLPQHR	---	DERYANMANPSQGI	GAKYTPNDG	GTKL
Blanceolatum GlyT2.2	(532)	HEDVSYGD-YEYPL	WAVTLGNLILVFCAIWI	PGVAIFWLV	ITPG-SFMERLR	LRKVTSP	TTTWGPHLARHR	---	DERYAHMANPSSGI	GAKYTPNDG	GTKL
Bbelcheri GlyT2.2isoformX1	(544)	HEDVSYGD-YTYPL	WAVTLGNLILVFCAIWI	PGVAIFWLV	ITPG-SFMERLR	LRKVTSP	TTTWGPHLPQHR	---	DERYANMANPSAGI	GAKYTPNDG	GTKL
Bbelcheri GlyT2.2isoformX3	(531)	HEDVSYGD-YTYPL	WAVTLGNLILVFCAIWI	PGVAIFWLV	ITPG-SFMERLR	LRKVTSP	TTTWGPHLPQHR	---	DERYANMANPSAGI	GAKYTPNDG	GTKL
Bbelcheri GlyT2.2isoformX2	(532)	HEDVSYGD-YTYPL	WAVTLGNLILVFCAIWI	PGVAIFWLV	ITPG-SFMERLR	LRKVTSP	TTTWGPHLPQHR	---	DERYANMANPSAGI	GAKYTPNDG	GTKL

Identical amino acid residues conserved in 100% of the sequences are shown in yellow, similar amino acid residues conserved in less than 100% but more than 50% of the sequences are shown in light blue, and similar amino acid residues conserved in less than 50% of sequences are highlighted in green.