

SQV-3	1		MKIKTRLILSGTILISLAACYFLVLLVLDLEITRDLMTDYVDPRLQT	48
GalT1	1		MFPSRRKAAQLPWEDGRSGLLSGGLPRKCSVFHLFVACLSLGFSLWLQLSCSGDVARAVRGQGQETS	70
SQV-3	49	-----	SYHKLCVIVPYRDRLEELREFSPHMSKFLHNQVSSHILIIINQTDPLRFN	98
GalT1	71		PPRACPPEPPPEHWEEASWGPRLAVLVPFRERFEELLVFVPHMRRFLSRKKIRHHIYVLNQLDHFNFN	140
SQV-3	99		RASLINVGWNEADRLGCDYVMVNDVDLLPVNPEVPYDFPGIEVIRHITSPQYHKVHYEKFIGGILMRTL	168
GalT1	141		RAALINVGFLSSN-STDYIAMHDVDLLPLNEELDYGFPEAPF-HVASPELHPLVHYKTYVGGILLLSK	208
			*	
SQV-3	169		KDYKKLNGMSNKYWGWGLEDDFYLRIDSKLNLTRVSGLSIDSSNTRFHINGFK-RKRDYTPKNDKNO	237
GalT1	209		QHYRLCNGMSNRFWGWGREDDFYRRIKGAGLQLFPSGITI-GYKTRHLDFAWRKRD--QRIAAQA	275
SQV-3	238		WEIKRKRDHVSGLHDVRYLIDSRQLLDFSGTSTVITIIINVAHCDLNWTPYCK-S	289
GalT1	276		QEQF-KVDREGGLNTVKYHVASRTALSVGGAPCTVLNIMLDCDKTATPWCTFS	327

**Figure S3. Comparison of amino acid sequences between SVH-10/SQV-3 and human GalT1.** Identical and similar residues are highlighted with black and gray shading, respectively. A mutation site of *sqv-3*(*n2842*) is indicated by an asterisk.