

Figure 2-figure supplement 1

Neuronal SNAREs

Domain	NRD										NTD							CTD										
Layer #																												
VAMP2 #	-8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8																											
VAMP2 (R)	25 29 32 35 39 42 46 49 53 56 60 63 67 70 74 77 81 84																											96
VAMP2 (R)	MS...EGGPPAPPNLTSTNRR										LQQTQAQVDEVVDIMRVNVDKVLERDQKLTSEIDDRADALQAGASQFETSAAKLKRKYWKNLKM...							LCT										F
Qa	I187C										R198C							L205C										
Syntaxin-1A	MKDR...SISKQALSEIETRHSE										TIKLTENSTRELHDMFMDMAMLVESQGEMTDRIEYNVEHAVDYVERAVSDTKKAVKYQSKARRKK...QKI																	
Syntaxin-1A #	1 187 198																											265
SNAP-25B #	1																											95
SN1 (Qb)	MA...QRRADQLADESLES										TRRMLQLVVEESKDAGIRTLVMTDEQGEQTERIEEGMDQTNKDMKEAEKNITDLGKFSGLSVSPSNKL...																	
SN2 (Qc)	AR...RVTNDARENEMDEN										LEQVSGITGNLRHMAALDMGNETDTQNRQTDRIIMEKADSNKTRIDEANQRAATKMLGSG																	
SNAP-25B #	118																											206

Rat GLUT4 SNAREs

VAMP2 # 1 25 29 32 35 39 42 46 49 53 56 60 63 67 70 74 77 81 84 96 F
VAMP2 (R) MS...EGGPPAPPNPNTSNRR LQQ TQAQVDEVVDI MRV NVDKVLERDQK LSELDDR ADAL QAGASQ FETS AAK LKRKYWWKNLKM... LCT

Syntaxin-4 MKDR...QVTRQALNEISARHSE IQQ TERS TRELHEI FTFLATEVEM QGEM INRIEKN LSS ADY VERG QEHV KIALENQKKARKKK... QKI
Syntaxin-4 # 1 1 194 206 273 F

SNAP-23 # 1 90
SN1 (Qb) MD...IQLRAHQVTDESLESTRR ILGLAIESQDAG IKT ITMTDEQGEQ LNR IEEGMDQ LNKDMREA EKT T TELNKCCGLCVCPCNRT...
SN2 (Qc) PQ...KRITNDAREDEMEENLTQVGS I LGNLKNM ALDMGNETDA QNQQT QKITEKADTNKNRI DIANTRA KKLIDS
SNAP-23 # 127 210

Yeast vacuolar SNAREs

Peast vacuolar SNAREs

	148	218	F
Nyv1 (R)	GSSCGGGVENNGGDSINSVQRETEDVRGIMSRNIEGLIERGERIDILVVDKTDRLGGSAREFRLRSRGILKRKMWWKNVK..GCK		↑
Vam3 (Qa)	GSSCGGGLILEREFEETIRNIEQGVSDLNVIFFQOVAQLVAEQGEVLDTIERNVEAVGDDTTRGADRELRAAARYQKRARSRM..QKI	252	↓ F
Vti1 (Qb)	126 GSMLDRSTQRILKASQALAAETEAIGASMLAQLQQQREVITANTTRILYESEGYVDRSIIKSLKGLIARRM	190	
Vam7 (Qc)	308 GSKLDEQEEYVKDITGVHVRRLRHILGTETYNATESQKDDLDTLDQGLITRLNGILDKAKALEKKVSGRA	371	