SYTL2 cDNA Clone – Synaptotagmin-Like 2 (Human)

PRODUCT OVERVIEW

Product Name	SYTL2, cDNA Clone
Full Product Name	SYTL2 cDNA Clone
Product Gene Name	SYTL2 cdna clone
Sequence	atgagcaagt ctgttccagc atttctccaa gatgagagtg atgacagaga aacagataca gcatcagaaa gcagttacca gctcagcaga cacaagaaga gcccgagctc tttaaccaat cttagcagct cctctggcat gacgtccttg tcttctgtga gtggcagtgt gatgagtgtt tatagtggag actttggcaa tctggaagtt aaaggaaata ttcagtttgc aattgaatat gtggagtcac tgaaggagtt gcatgttttt gtggcccagt gtaaggactt agcagcagcg gatgtaaaaa aacagcgttc agacccatat gtaaaggcct atttgctacc agacaaaggc aaaatgggca agaagaaaac actcgtagtg aagaaaacct tgaatcctgt gtataacgaa atactgcggt ataaaattga aaaacaaatc ttaaagacac agaaattgaa cctgtccatt tggcatcggg atacatttaa gcgcaatagt ttcctagggg aggtggaact tgatttggaa acatgggact gggataacaa acagaataaa caattgagat ggtaccctct gaagcggaag acagcaccag ttgcccttga agcagaaaac agaggtgaaa tgaaactagc tctccagtat gtcccagagc cagtccctgg taaaaagctt cctacaactg gagaagtgca catctgggtg aaggaatgcc ttgatctacc actgctaagg ggaagtcatc taaattcttt tgttaaatgt accatccttc cagatacaag taggaaaagt cgccagaaga caagagctgt agggaaaacc accaacccta tcttcaacca cactatggtg tatgatgggt tcaggcctga agatctgatg gaagcctgtg tagagcttac tgtctgggac cattacaaat taaccaacca atttttggga ggtcttcgta ttggctttgg aacaggtaaa agttatggga ctgaagtgga ctggatggac tctacttcag aggaagttgc tctctgggag aagatggtaa actcccccaa tacttggatt gaagcaacac tgcctctcag aatgcttttg attgccaaga tttccaaatg a
Molecular Weight	84,651 Da
OMIM	612880
Vector	pENTR223.1 or pUC
Clone Sequence Report	Provided with product shipment
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for SYTL2 cdna clone	MBS1265776 is a cDNA clone targeting SYTL2.
Other Notes	Small volumes of SYTL2 cdna clone vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYTL2. It may not necessarily be applicable to this product.

NCBI GI #	34784984
NCBI GeneID	54843
NCBI Accession #	BC015540
UniProt Secondary Accession #	Q2YDA7; Q6TV07; Q6ZN59; Q6ZVC5; B3KRS3; B4DJT5; B4DKW3; B4DQ26; B7SA85; B7ZLX6; B7ZLX7
UniProt Related Accession #	Q9HCH5
NCBI Official Full Name	Homo sapiens synaptotagmin-like 2, mRNA
NCBI Official Synonym Full Names	synaptotagmin like 2
NCBI Official Symbol	SYTL2
NCBI Official Synonym Symbols	EXO4; SLP2; SLP2A; SGA72M; CHR11SYT; PPP1R151
UniProt Protein Name	Synaptotagmin-like protein 2

UniProt Synonym Protein Names	Breast cancer-associated antigen SGA-72M; Exophilin-4
Protein Family	Synaptotagmin-like protein
UniProt Gene Name	SYTL2
UniProt Synonym Gene Names	KIAA1597; SGA72M; SLP2; SLP2A
UniProt Entry Name	SYTL2_HUMAN
NCBI Protein Information	synaptotagmin-like protein 2
NCBI Summary for SYTL2	The protein encoded by this gene is a synaptotagmin-like protein (SLP) that belongs to a C2 domain-containing protein family. The SLP homology domain (SHD) of this protein has been shown to specifically bind the GTP-bound form of Ras-related protein Rab-27A (RAB27A). This protein plays a role in RAB27A-dependent vesicle trafficking and controls melanosome distribution in the cell periphery. Alternative splicing results in multiple transcript variants encoding distinct isoforms.[provided by RefSeq, Jun 2009]
UniProt Comments for SYTL2	SYTL2: Isoform 1 acts as a RAB27A effector protein and plays a role in cytotoxic granule exocytosis in lymphocytes. It is required for cytotoxic granule docking at the immunologic synapse. Isoform 4 binds phosphatidylserine (PS) and phosphatidylinositol- 4,5-bisphosphate (PIP2) and promotes the recruitment of glucagon- containing granules to the cell membrane in pancreatic alpha cells. Binding to PS is inhibited by Ca(2+) while binding to PIP2 is Ca(2+) insensitive. 12 isoforms of the human protein are produced by alternative splicing. Protein type: Vesicle; Motility/polarity/chemotaxis; GAPs, Rab; GAPs; Lipid-binding Chromosomal Location of Human Ortholog: 11q14 Cellular Component: cytoplasm; extrinsic to plasma membrane; melanosome; membrane; plasma membrane Molecular Function: calcium ion binding; calcium-dependent phospholipid binding; clathrin binding; neurexin binding; phosphatase binding; phosphatidylinositol-4,5-bisphosphate binding; phosphatidylserine binding; protein binding; syntaxin binding Biological Process: calcium ion-dependent exocytosis of neurotransmitter; exocytosis; regulation of calcium ion-dependent exocytosis; vesicle docking during exocytosis; vesicle fusion; vesicle-mediated transport
Research Articles on SYTL2	**1.** SLP2 may play an important role in tumorigenesis of esophageal squamous cell carcinoma.
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