

Product datasheet for **RG227252**

Synaptotagmin 1 (SYT1) (NM_001135806) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synaptotagmin 1 (SYT1) (NM_001135806) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT1
Synonyms:	BAGOS; P65; SVP65; SYT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG227252 representing NM_001135806 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGTGAGCGAGAGTCACCATGAGGCCCTGGCAGCCCCGCTGTCACTGTGCGGACTGTTCTGCCAA
GCAATGCCACAGAGCCAGCCAGTCTGGAGAAGGAAAGGAAGATGCATTTTCTAAGCTGAAGGAGAAGTT
TATGAATGAGTTGCATAAAATCCATTGCCACCGTGGCCTTAATTGCAATAGCCATAGTCGCAGTCCTT
TTAGTCCTGACCTGCTGCTTTTGTATCTGTAAGAAATGTTTGTCAAAAAGAAAAACAAGAAGAAGGAA
AGGAAAAAGGAGGAAGAATGCCATTAACATGAAAGATGTAAGAACTTAGGGAAGACGATGAAAGATCA
GGCCCTCAAGGATGATGCTGAAACTGGATTGACAGATGGAGAAGAAAAAGAAGAACCCAAAGAAGAG
GAGAACTGGGAAAACCTCAGTATTCAGTATTCACTGGATTATGATTTTCAAAAATAACCAGCTGCTGGTAGGATCA
TTCAGGCTGCCAACTGCCCGCCTTGGACATGGGGGCACATCTGATCCTTACGTGAAAGTGTCTGCT
ACCTGATAAGAAGAAGAAATTTGAGACAAAAGTCCACCGAAAAACCCCTAATCCTGTCTTCAATGAGCAA
TTACTTTCAAGGTACCATACTCGGAATTGGGTGGCAAAACCCCTAGTGATGGCTGTATATGATTTTGATC
GTTTCTCTAAGCATGACATCATTGGAGAATTTAAAGTCCCTATGAACACAGTGGATTTTGGCCATGTAAC
TGAGGAATGGCGTGACCTGCAAAGTCTGAGAAGGAAGCAAGAGAAATGGGTGATATCTGCTTCTCC
CTTCGCTACGTACCTACTGCTGTAAGCTGACTGTTGTCTGAGGCAAGAACCTGAAGAAGATGG
ATGTGGGTGGCTTATCCGATCCTTATGTGAAGATTCATCTGATGCAGAATGGTAAGAGGCTGAAGAAGAA
AAAGACAACAATTTAAAAAGAACACACTTAACCCCTACTACAATGAGTCATTCAGCTTTGAAGTACCTTTT
GAACAAATCCAGAAAGTGCAGGTGGTGGTAACTGTTTTGGACTATGACAAGATTGGCAAGACGATGCCA
TCGGCAAAGTCTTTGTGGCTACAACAGCACCGCGCGGAGCTGCGACTGGTCAGACATGCTGGCCAA
CCCCAGGCGACCTATTGCCAGTGGCACACCCTGCAGGTAGAGGAGGAAGTTGATGCCATGCTGGCCGTC
AAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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ORF Size:	1266 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_001135806.1 , NP_001129278.1
RefSeq Size:	4427 bp
RefSeq ORF:	1269 bp
Locus ID:	6857
UniProt ID:	P21579
Cytogenetics:	12q21.2
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010]