

Product datasheet for **RG227232**

Synapsin III (SYN3) (NM_001135774) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Synapsin III (SYN3) (NM_001135774) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYN3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG227232 representing NM_001135774
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATTTCTCCGGCGACGTCTCTGACAGCAGCTTCATGGCCAACCTGCCTAATGGCTATATGACGG
 ACCTGCAACGCCAGATAGCTCCACCAGCTCACCTGCTTCCCCGCCATGGAGAGGAGGCCACCCAGCC
 CCTGGCTGCCTCCTTCTCCTCTCCAGGATCCAGCCTTTTAGCTCCCTCTCCAGTCCATGAAGCAGGCC
 CCTCAGGCCACCTCAGGACTGATGGAGCCTCCAGGTCCCTCCACGCCATTGTTCAAAGACCCAGGATCC
 TGTGGTATCGATGATGCCATACAGACTGGTGAAGTATTTCCATGGGAAGAAGGTGAATGGAGAGAT
 TGAGATCCGAGTGGAGCAGGCTGAATTCTCAGAGTTGAACCTAGCTGCCTATGTGACCGGGGCTGCATG
 GTGGACATGCAGGTCGTGAGAAATGGACCAAAGTGGTGAAGCAGATCCTCAAGCCAGACTTCATCTGG
 TCCGCCAGCATGCCTACAGCATGGCCCTGGGGAAAGACTACCGCAGCCTGGTATCGGCCTGCAGTATGG
 AGGGCTGCCTGTCAACTCTCTACTCCGTCTACAACCTCTGCAGCAAGCCCTGGGTGTTCTCTCAG
 CTATTAAGATCTTCCATTCCCTGGGTCCTGAGAAGTTCCCGCTTGTGGAGCAAACATTTTTCCCAACC
 ATAAGCCAATGGTCACAGCCCCACACTCCCGGTGGTAGTCAAGCTGGGACATGCCACGCTGGAATGGG
 AAAGATCAAAGTGGAAAACAGCTTGACTTCCAGGACATCACCAGCGTGGTGCCTATGGCAAAACCTAC
 GCCACCACCGAGGCCCTTCATCGACTCCAAGTACGACATCCGCATCCAGAAAATTGGATCCAACTACAAGG
 CTTACATGAGAACCTCCATCTCTGGAACTGGAAGGCCAACACAGGCTCTGCCATGTGGAGCAGGTGGC
 CATGACAGAGAGGTACAGGCTGTGGTGGACAGCTGCTCGAAATGTTTGGCGCCTGGACATCTGTGCC
 GTCAAGGCTGTCCACAGCAAGGATGGCAGAGATTACATCATCGAGTAATGGACAGCTCAATGCCGCTCA
 TGGAGAGCATGTGGAAGAGGACAGACAGCTGATGGCCGACCTTGTGTCTCAAATGAGCCAGCTCCC
 GATGCCAGGAGGCACAGCGCCCTCCCCCTCAGACCTTGGGCTCCACAGATTAATCAGCGAAATCCCCA
 GGGCAAGCCAGCTGGGGCTCAGCTAGGCCAGCCCCAGCCACGCCACCTCCGCAAGGAGGCCCTCGCC
 AAGCTCAGTCTCCTCAGCCCCAGAGATCTGGAAGCCCTCCCAACAGAGGCTCTCCCCACAAGGCCAGCA
 GCCCTGAGCCCCAGTCCGGATCTCCACAGCAGCAAAGGTCACCAGGCTCTCCGAGCTATCCCGGCA
 TCCAGTGGCAGCTCCCCAAACCAGGCCCTCAAGCCAGGTGCCACCCTCGCCTCACAGCCCCGGCCCCCTG
 TGCAGGGCCGTAGTACCTCCAGCAGGGTGAAGAGTCAAAGAAGCCAGCACCCATCCGCATCTCAA
 CAAATCTCAGTCCCTGACTAACAGCCTCAGCACATCCGACACCTCCAGCGTGGGACCCCAAGTGAAGAC
 GAGGCCAAGGCTGAAACCATCCGCAACCTGAGGAAGTCTTTGCCAGCCTGTTCTCTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG227232 representing NM_001135774
 Red=Cloning site Green=Tags(s)

MNFLRRRLSDSSFMANLPNGYMTDLQRPDSSTSSPASPAMERRHPQLAASFSSPGSSLFSSLSAMKQA
 PQATSGLMEPPGPSTPIVQRPRILLVIDDAHTDWSKYFHGKKVNGEIEIRVEQAEFSELNLAAYVTGGCM
 VDMQVVRNGTKVVSRSFKPDFILVRQHAYSMALGEDYRSLVIGLYGGLPAVNSLYSVYFCSKPPWFSSQ
 LIKIFHSLGPEKFPFVEQTFPPNHKPMVTAHPFPVVVKLGHAHAGMGKIKVENQLDFQDITSVAMAKTY
 ATTEAFIDSKYDIRIQIGSNYKAYMRTSISGNWKANTGSAMLEQVAMTERYRLWVWVSCSEMFGGLDICA
 VKAVHSDGRDYIEVMDSSMPLIGEHVEEDRQLMADLVVSKMSQLPMPGGTAPSPLRPWAPQIKSAKSP
 GQAQLGPQLGQPQPRPPPPQGGPRQAQSPQQRSGSPSQRLSPQGGQPLSPQSGSPQQRSPPGSPQLSRA
 SSGSSPNQASKPGATLASQPRPPVQGRSTSQQGEESSKPPAPPHPLNKSQSLTNSLSTSDTSQRGTPSED
 EAKAETIRNLRKSFASLFS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

ORF Size:	1737 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_001135774.1 , NP_001129246.1
RefSeq Size:	3147 bp
RefSeq ORF:	1740 bp
Locus ID:	8224
Cytogenetics:	22q12.3
Protein Families:	Secreted Protein
Gene Summary:	This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases. The protein encoded by this gene shares the synapsin family domain model, with domains A, C, and E exhibiting the highest degree of conservation. The protein contains a unique domain J, located between domains C and E. Based on this gene's localization to 22q12.3, a possible schizophrenia susceptibility locus, and the established neurobiological roles of the synapsins, this family member may represent a candidate gene for schizophrenia. The TIMP3 gene is located within an intron of this gene and is transcribed in the opposite direction. Alternative splicing of this gene results in multiple splice variants that encode different isoforms. [provided by RefSeq, Oct 2008]