

Product datasheet for **RG212871**

SYT16 (NM_031914) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SYT16 (NM_031914) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SYT16
Synonyms:	CHR14SYT; Strep14; SYT14L; syt14r; yt14r
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212871 representing NM_031914
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGTGGCCATGGCGTCTCAGGATGCTCAGAACTTCTCCAGCCTTTCTCTTCTGGATATCTCGGG
 TTTATGAAGCTCTCCAGCAAGCAGGAGATATGTTATCTGCTTCGCTGGTTAACATAAGCAAACAAGACTC
 TAAATTGAGTGACAACTAGATCAGGACTTAGATAATATTAGATTTCAGGAAACGTAAGTAAAGATGAA
 GAACAAGACAATGATTGGAGTCAAGAGGATGCAAATTCCTTGTTCCTGAAGTGGATCATTTCTCATGTT
 GTAATAGTGATTTGCAGGACTCTGCCAAAATTCAAGCCCAAGCCTTAGCCAACATGCAAAGGACTCATG
 TTCCACAATGTCCAGTGGCCCAATTGGGCCAGTGATGACCGCAAGTTACCACATGTGCTTTCTTCTATT
 GCGGAGGAAGAGCATCACCTTGAAAAGCAAAGAAGTGGCCTTCAACATGGCTTTGACAGCCAGCTCCCTG
 GTACTTTAGAAACTGTTAATGAAAAAAGCAAGTCAACAGCTTTGGGGATGACGAAGAGCTGTCCACATC
 TTCTGACAGTGACGAGGAGGTGATCAAACAATTTGAGATTTCCGTGTCCCGTCCAGAGTTCCGTTCA
 GTGACATCTGAGAAAGGAAAGCAGACAGGATTGGAGCAGAAACAAAATTCAGCCGTTCTGTTGACAC
 ACGGAGAAGATGGCACAGAAGTATCTGCCTGCGAAGATTTGGATGGAGCCAGCCAACGGCGTTATTTCTGA
 GAATCTCTCTACGGTGAAGATGACCACATCCCTGCTCACTCACAGTCCCATGTGAAAGAGGGGATGCC
 AAACACCACGGCACATCTACCAAGAGTCCAGTGTGGTCCAAAGCCTCAGGCGCCAATCCACAGAGGGCA
 GCTTGGAGATGGAGACAGCTTTTAAAGCCGGGATTTGAAGATTCCTATGCCACTGACAGCTCTCCAT
 GTGGAGTCCAGAGAACAGGACAGGACCAATTTGACAGTGGCCTCCGGGGTCTCAGAGCCATCTCAAAG
 TGTGGTACCTAGATGTCATCTTTGAATATAGAGCCGCCAGCCAGAAGCTCACAGTGACCATTTGTGAGGG
 CACAGGGCCTCCAGATAAGGACCGAAGTGGTCAACTCCTGGCAAGTTCATGTAGTGTGCTGCCTGG
 TAAGAAACACAGGGGCAGGACGAACATACAGAGGGGCCAACCCTGCTTCAGGGAGAAGTCACTTT
 GCCAAGCTGGAGCCAGAGATGTGGCTGCTGTGCTGTCGCTTCCGCTGTACGCTGCCGGAAGATGA
 CCCGAGAGAGAATGATGGGAGAGAACTATTCTATCTCAGCCACCTGCACCCAGAAGGGGAAATGAAAGT
 GACTCTGGTTCTGGAGCCAAGAAGTAATAAAGCAGTGGAGGGTCTCCGCTCAGCCCATCTGCGGTTTCT
 CACAGTGATAGTACTTCCACGCAGTCGCTGTCTCATGGAGGGGCCAGAGCTGTTGGTGGGGCTCT
 CGTACAATGCCACAACGGGGGATTATCTGTGAAATGATCAAAGGCAGCCATTTCCGAAACCTCGCTGT
 TAACCGAGCACCTGATACATATGAAAACTCTTCTCCTCAATTCTGTGGGTCAAGAGATGTCCCGTTGC
 AAGACGTCCATTCGGCGTGGTCAAGCCAACTCCTGTCTATAAGGAGACCTTTGTTTTCCAGGTGGCCCTCT
 TTCAGCTGTCTGATGTCAGTGTGATTTCCGTTTATAACAGGCGTACTATGAAGCGTAAAGAGATGAT
 TGGCTGGATTGCCCTGGGCCAGAACAGCAGTGGAGAGGAGGAACAAGATCACTGGGAGGAGATGAAGGAA
 ACCAAAGGCCAGCAGATCTGCAGATGGCACACTTTGCTGGAATCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG212871 representing NM_031914
 Red=Cloning site Green=Tags(s)

MVLAMASQDAQNFFQPFSSWISRVYEALQQAGDMLSASLVNISKQDSKLSDKLDQDLNIIQIETEFED
 EQDNDWSQEDANSLFLEVDHFSCCNSDLQDSAQNSPSSLQSHAKDSCSTMSQWPNNWASDDRKLPHVLS
 AEEHHLEKQRSGLQHGFDSQLPGTLETVNGKKQVNSFGDDEELSTSSDSDEEVIKQFEISVSRSQSF
 VTSEKQKQTLGKPKF SRLL THGEDGTEVSACEDLDGASQRRYS ENLSYGEDDHIPAHSQSPCERGD
 KHHGTSHQESSVVQSLRRQSTEGSLEMETA FNRSRGFEDSYATDSSMWSPEEQDRTNLQVPSGVSEPI
 SKCGDLDVIFEYRAASQKLTVTIVRAQGLPKDRSGVNSWQVHVLLPGKKHRGRTNIQRGNPVPFREKVT
 AKLEPRDVAACAVRFRLYAARKMTRERMMGEKLFYLSHLHPEGEMKVTLVLEPRSNISSGGSPSPSAV
 HSDSTSSTQSLSHGGAPELLVGLSYNATTGRLSVEMIKGSHFRNLAVNRAPDYGKFLLLNSVQGEMSR
 KTSIRRGQPNPVYKETFVFQVALFQLSDVTLMISVYNRRMTMKRKEIMGIWIALQNSSGEEQDHWEEMKE
 TKGQQICRWHTLLES

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



ACCN: NM_031914

ORF Size: 1935 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:

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_031914.2](#), [NP_114120.2](#)

RefSeq Size: 3137 bp

RefSeq ORF: 1938 bp

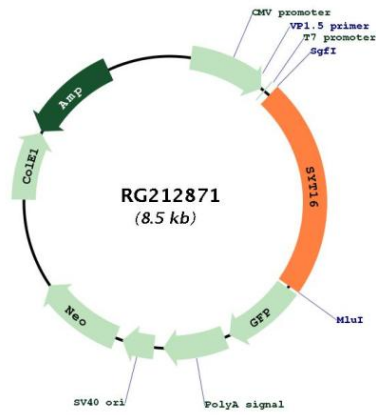
Locus ID: 83851

UniProt ID: [Q17RD7](#)

Cytogenetics: 14q23.2

Gene Summary: May be involved in the trafficking and exocytosis of secretory vesicles in non-neuronal tissues. Is Ca(2+)-independent.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG212871