

Product datasheet for **RC230415**

Granuphilin (SYTL4) (NM_001174068) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Granuphilin
Synonyms:	SLP4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence: >RC230415 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCGGAGTTACTGGACCTTTCTTTCTGTCTGAGGAGGAAAAGGATTTGATTCTCAGTGTCTACAGC
GAGATGAAGAGGTCCGGAAGCAGATGAGAAAAGGATTAGGCGACTAAAGAATGAGTTACTGGAGATAAA
AAGGAAAGGGGCCAAGAGGGGAGCAACACTACAGTATCGGACCTGTGCCCGGTGCCAGGAGAGCCTG
GGCCGTTTGTAGTCCCAAAACCAATACTTGTCTGGGGTGTGAATCACCTGGTGTGTCTGGGACTGCCGCATAC
AGGAAAGCAATGGTACCTGGAGGTGCAAGGTGTGCGCAAGGAAATAGAGTTGAAGAAAGCAACTGGGA
CTGGTTTTATGACCAGAAAGTGAATCGCTTTGCTTACCGCACAGGTAGTGAGATAATCAGGATGTCCCTG
CGCCACAAACCTGCAGTGAGTAAAAGAGAGACAGTGGGACAGTCCCTCCTTCATCAGACACAGATGGGTG
ACATCTGGCCAGGAAGAAAGATCATTACAGAGCGGCAGAGGAGCCAGTGTGCTATTTGAAGTGCCAAA
GCTGAAAGTGGAAGAGTGCATTGGAAGCTGAGAGTGAGAGTCTGGATAGCTTCACAGCTGACTCGGAT
AGCACCTCCAGGAGAGACTCTCTGGATAAATCTGGCCTCTTTCCAGAATGGAAGAAAGATGTCTGCTCCCA
AATCTCAAGTAGAAAAGGAAACTCAGCCTGGAGGTCAAAATGTGGTATTGTGGATGAGGGTGAGATGAT
ATTTAAGAAGAACACAGAAAAATCCTCAGGCCTTCAGAGTACATAAACTGTGATAGATCTTCGCCCCA
GAAGATGTGGTACATGAAAGTGGCTCCTTGGGAGACAGAAGCAAATCCGTCCCAGGCCTCAATGTGGATA
TGGAAAGGAAGAAGAAGAAGACATTGACCACCTAGTGAAGTTACATCGCCAGAAGCTAGCCAGAAG
CAGCATGCAAAGTGGCTCCTCCATGAGTACGATCGGCAGCATGATGAGCATCTACAGTGAAGCTGGTGTG
TTCGGGAACATCTTTGTGACTGGCAGGATTGCCTTTTCCCTGAAGTATGAGCAGCAAACCCAGAGTCTGG
TTGTCCATGTGAAGGAGTGCCATCAGCTGGCCTATGCTGATGAAGCCAAGAAGCGCTCTAACCCATATGT
GAAGACTTACCTTCTGCCTGACAAGTCCCGCCAAAGGAAAAAGAAAAACAGCATCAAGCGGGACACTGTT
AATCCACTATATGATGAGACGCTGAGGTATGAGATCCAGAATCTCTCCTGGCCAGAGGACCTGCAGT
TCTCAGTTTGGCATCATGGTCGTTTTGGCAGAAACACTTTCCTTGGAGAGGCAGAGATCCAGATGGATT
CTGGAAGCTTGATAAGAACTGGATCATTGCCTCCCTTACATGGAAGATCAGTGTGAGTCCCGGACT
GGCTTGCCATCACACAAAGGCGAGTTGGTGGTTTCATTGAAATACATCCAGCCTCCAAAACCCCTGTTG
GAGGTGACCGGAAAAAGAGTAAAGGTGGGGAAGGGGAGAGCTCCAGGTGTGGATCAAAGAAGCCAAGAA
CTTGACGGCTGCCAAGCAGGAGGGACTTCAGACAGCTTTGTCAAGGGATACCTCCTTCCCATGAGGAAC
AAGGCCAGTAAACGTAAACTCCTGTGATGAAGAAGACCCTGAATCCTCACTACAACCATACATTTGTCT
ACAATGGTGTGAGGCTGGAAGATCTACAGCATATGTGCCTGGAAGTGAAGTGTGTGGGACCGGAGCCCT
GGCCAGCAATGACTTCTGGGAGGGGTGAGGCTGGGTGTGGCACTGGGATCAGTAATGGGGAAGTGGTG
GACTGGATGGACTCGACTGGGGAAGAAGTGAAGCTGTGGCAGAAGATGCGACAGTACCCAGGGTCTTGGG
CAGAAGGACTCTGCAGCTCCGTTCTCAATGGCCAAGCAGAAGCTGGGTTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230415 protein sequence
Red=Cloning site Green=Tags(s)

MSELLDL SFLSEEEKDL ILSVLQRDEEVRKADEKRIRRLKNELLEIKRKGA KRGSQHYSDRTCARCQESL
GRLSPKNTNCRGCNHLVCRDCRIQESNGTWRCVKCAKEIELKKATGDWFYDQKVNRFAYRTGSEIIRMSL
RHKPAVSKRETVGQSLHQTQMGDIWPGRKIIQERQKEPSVLFEVPKLKS GKSALAESESLDSFTADSD
STSRRLSLDKSGLFPEWKMSAPKSQVEKETQPGGQNVVFVDEGEMIFKKNTRKILRPSEYTKSVIDL RP
EDVVHESGSLGDRSKSVPLNVDMEEEEEEDIDHLVKLHRQKLARSSMQSGSSMSTIGSMMSIYSEAGD
FGNIFVTGRIAFSLKYEQQTQSLVHVKECHQLAYADEAKRSNPVVKTYLLPDKSRQGRKTSIKRDTV
NPLYDETLRYEIPESLLAQR TLQFSVWHHGRFGRNTFLGEAEIQMDSWKLDKKLDHCLPLHGKISAESPT
GLPSHGELVVS LKYIPASKTPVGGDRKSKSGEGGELQVWKEAKNLTAAGAGTSDSFVKGYLLPMRN
KASKRKT PVMKKT LNPHYNHTFVYNGVRLEDLQHMCLLTVWDREPLASND FLGGVRLGVGTGISNGEVV
DWMDSTGEEVSLWQKMRQYPGSWAEGTLQLRSSMAKQKLGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6307_g07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001174068

ORF Size: 2013 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.

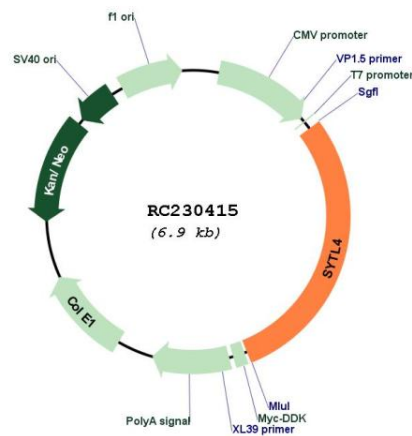
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001174068.1](#), [NP_001167539.1](#)

RefSeq Size: 3767 bp
 RefSeq ORF: 2016 bp
 Locus ID: 94121
 UniProt ID: [Q96C24](#)
 Cytogenetics: Xq22.1
 MW: 76 kDa

Gene Summary: This gene encodes a member of the synaptotagmin like protein family. Members of this family are characterized by an N-terminal Rab27 binding domain and C-terminal tandem C2 domains. The encoded protein binds specific small Rab GTPases and is involved in intracellular membrane trafficking. This protein binds Rab27 and may be involved in inhibiting dense core vesicle exocytosis. Alternate splicing results in multiple transcript variants that encode the same protein. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RC230415