

Product datasheet for **RG219897**

ZFYVE27 (NM_001002261) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_001002261) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZFYVE27
Synonyms:	PROTRUDIN; SPG33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG219897 representing NM_001002261 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCAGACATCAGAACGTGAGGGGAGTGGGCCGGAGCTGAGCCCCAGCGTGATGCCCGAGGCTCCCCTGG
AGTCTCCACCTTTTCTACCAAGTCCCCAGCGTTTGACCTTTTCAACTTGGTTCTCTCTACAAGAGGCT
GGAGATCTACCTGGAACCCTTGAAGGATGCAGGTGATGGTGTTCGATACTTGCTCAGGTGCCAGATGCCT
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CAGTAGGTGCCCTGATGATTTTCAGTGCCCGCCCTGCTGGGCTACCTTCAGGAGGTTTGCCGGGCACGGCT
GCCTGATTCGAGCTGATGCGGAGGAAGTATCATAGCGTGAGGCAGGAGGACCTGCAGAGAGGTCGCCTG
TCTCGTCCCGAGGCCGTGGCTGAGGTGAAGAGCTTCTTGATCCAGCTGGAGGCCCTTCTGAGCCGCCTGT
GCTGCACATGTGAAGCCGCTACCGCGTGTGCACTGGGAGAACCCCGTGTGCTCCTCACAGTTCTATGG
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ACGCTCTTCTGGGGAATGTGGAGTTCTCCGAGTTGTGTCTGAGTACAGGGCATCTCTGCAGCAGAGGA
TGAACCCAAAGCAGGAAGAGCATGCCTTGAGAGTCTCCACCACCAGATGTTGGGGGAAGGATGGTCT
GATGGACAGCACGCTGCCCTCACACCCACGGAGAGTCTCTTCCCAGGACCTCACACCGGCACGCGTG
GAGGAGGCTGAGGAGGCTGAGCCAGATGAAGAGTTTAAAGATGCGATTGAGGAGACCCACTTGGTGGTGC
TGGAGGATGATGAGGGCGCCCGTGCAGCAGAGGATGAGCTGGCCCTGCAGGACAACGGGTTCCCTGAG
CAAGAATGAGGTGCTGCGCAGCAAGGTGTCTCGGCTCACGGAGCGGCTCCGCAAGCGCTACCCACCAAC
AACTTCGGGAAGTGCACGGGCTGCTCGCCACCTTCTCAGTGCTGAAGAAGAGGCGGAGCTGCAGTAATT
GTGAAACAGCTTCTGCTCTCGATGCTGCTCCTTCAAGGTGCCAAGTCTCCATGGGGCCACAGCCCC
TGAAGCCAGAGGGAGACTGTGTTGTGTGCTCGTGTAAACCAGACCTTGAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG219897 representing NM_001002261
Red=Cloning site Green=Tags(s)

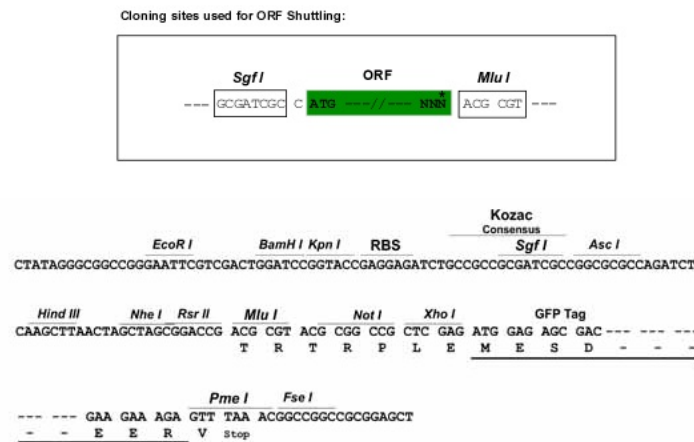
MQTSEREGSGPELSPVMPPEAPLESPPFPKSPAFDLFNLVLSYKRLIYLEPLKDAGDGVRYLLRWQMP
 LCSSLTCLGLNVLFLTLNEGAWYSVGLMISVPALLGYLQEVCRARLPDSELMRRKYHSVRQEDLQRGRL
 SRPEAVAIEVKSFLIQLEAFLSRLCCTCEAAYRVLHWENPVVSSQFYGALLGTVCMYLLPLCWVLTLLNS
 TLFLGNVEFFRVVSEYRASLQQRMNPKQEEHAFESPPPPDVGGKDGMDSTPALTPTESLSSQDLTPGSV
 EEAEAEAPDEEFKDAIEETHLVLEDEGAPCPAEDELALQDNGFLSKNEVLRKVSRLTERLRKRYPTN
 NFGNCTGCSATFVLKRRRSCNSGNSFCRCCSFKVPKSSMGATAPEAQRETVFVCASCNQTLISK

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1646_e03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001002261

ORF Size: 1248 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_001002261.3](#), [NP_001002261.1](#)

RefSeq Size: 3045 bp

RefSeq ORF: 1251 bp

Locus ID: 118813

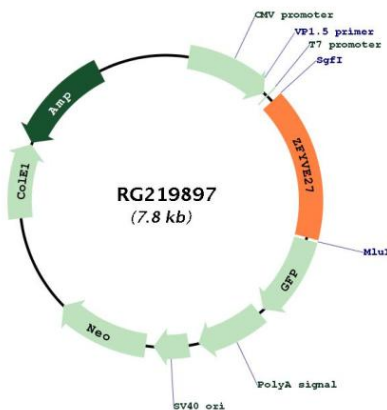
UniProt ID: [Q5T4F4](#)

Cytogenetics: 10q24.2

Protein Families: Transmembrane

Gene Summary: This gene encodes a protein with several transmembrane domains, a Rab11-binding domain and a lipid-binding FYVE finger domain. The encoded protein appears to promote neurite formation. A mutation in this gene has been reported to be associated with hereditary spastic paraplegia, however the pathogenicity of the mutation, which may simply represent a polymorphism, is unclear. [provided by RefSeq, Mar 2010]

Product images:



Circular map for RG219897