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Product datasheet for RG229865

ZFYVE27 (NM_001174121) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_001174121) 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:

>RG229865 representing NM_001174121
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTTCAGTGCCCGCCCTGCTGGGCTACCTTCAGGAGGTTTGCCGGGCACGGCTGCCTGATTCCGAGC
TGATGCGGAGGAAGTATCATAGCGTGAGGCAGGAGGACCTGCAGAGAGGTCGCCTGTCTCGTCCCGAGGC
CGTGGCTGAGGTGAAGAGCTTCTTGATCCAGCTGGAGGCCTTCCTGAGCCGCCTGTGCTGCACATGTGAA
GCCGCCTACCGCGTGCTGCACTGGGAGAACCCCGTCGTGTCCTCACAGTTCTATGGGGCTCTTCTGGGCA
CAGTCTGCATGCTGTATTTGCTGCCACTCTGCTGGGTTCTCACCCTTTTAAACAGCACGCTCTTTCTGGG
GAATGTGGAGTTCTTCCGAGTTGTGTCTGAGTACAGGGCATCTCTGCAGCAGAGGATGAACCCAAAGCAG
GAAGAGCATGCCTTTGAGAGTCCTCCACCACCAGATGTTGGGGGGAAGGATGGTCTGATGGACAGCACGC
CTGCCCTCACACCCACGGAGAGTCTCTCTTCCCAGGACCTCACACCGGGCAGCGTGGAGGAGGCTGAGGA
GGCTGAGCCAGATGAAGAGTTTAAAGATGCGATTGAGGAGGATGATGAGGGCGCCCCGTGCCCAGCAGAG
GATGAGCTGGCCCTGCAGGACAACGGGTTCCTGAGCAAGAATGAGGTGCTGCGCAGCAAGGTGTCTCGGC
TCACGGAGCGGCTCCGCAAGCGCTACCCCACCAACAACTTCGGGAACTGCACGGGCTGCTCGGCCACCTT
CTCAGTGCTGAAGAAGAGGCGGAGCTGCAGTAATTGTGGAAACAGCTTCTGCTCTCGATGCTGCTCCTTC
AAGGTGCCCAAGTCCTCCATGGGGGCCACAGCCCCTGAAGCCCAGAGGGAGACTGTGTTTGTGTGTGCCT
CGTGTAACCAGACCTTGAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

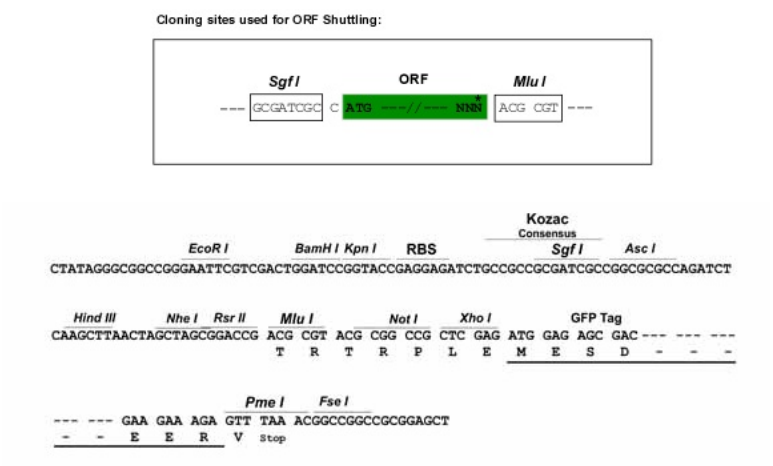
>RG229865 representing NM_001174121
Red=Cloning site Green=Tags(s)

MISVPALLGYLQEVCRARLPDSELMRRKYHSVRQEDLQRGRLSRPEAVAEVKSFLIQLEAFLSRLCCTCE
AAYRVLHWENPVVSSQFYGALLGTVCMLYLLPLCWVLTLLNSTLFLGNVEFFRVVSEYRASLQQRMNPKQ
EEHAFESPPPPDVGGKDGLMDSTPALTPTESLSSQDLTPGSVEEAEEAEPDEEFKDAIEEDDEGAPCPAE
DELALQDNGFLSKNEVLRSKVSRLTERLRKRYPTNNFGNCTGCSATFSVLKKRRSCSNCGNSFCSRCCSF
KVPKSSMGATAPEAQRETVFVCASCNQTLSK

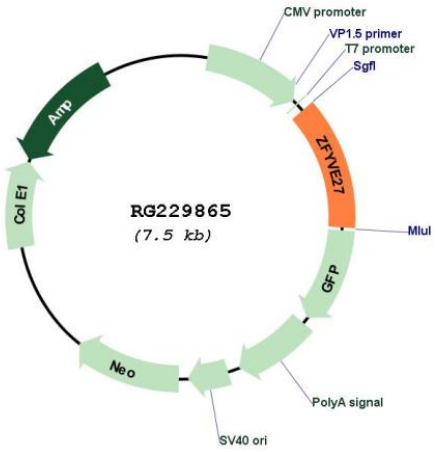
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001174121

ORF Size: 933 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_001174121.1, NP_001167592.1
RefSeq Size:	2780 bp
RefSeq ORF:	936 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]