

## Product datasheet for **RG206193**

### ZFYVE27 (NM\_144588) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_144588) 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:	>RG206193 representing NM_144588 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGACATCAGAACGTGAGGGGAGTGGGCCGGAGCTGAGCCCCAGCGTGATGCCCGAGGCTCCCCTGG  
AGTCTCCACCTTTTCTACCAAGTCCCCAGCGTTTGACCTTTTCAACTTGGTTCTCTCTACAAGAGGCT  
GGAGATCAACCTGGAACCCTTGAAGGATGCAGGTGATGGTGTTCGATACTTGCTCAGGTGGCAGATGCCT  
TTGTGTTCTTGCTGACCTGCCTGGCCCTCAACGTCTTGTTCCTCACTTTGAATGAGGGTGCATGGTACT  
CAGTAGGTGCCCTGATGATTTTCAGTGCCCGCCCTGCTGGGCTACCTTCAGGAGGTTTGCCGGGCACGGCT  
GCCTGATTCGAGCTGATGCGGAGGAAGTATCATAGCGTGAGGCAGGAGGACCTGCAGAGAGTTCGCCTG  
TCTCGTCCCGAGGCCGTGGCTGAGGTGAAGAGCTTCTTGATCCAGCTGGAGGCCCTTCTGAGCCGCCTGT  
GCTGCACATGTGAAGCCGCTACCGCGTGTGCACTGGGAGAACCCCGTGTGCTCCTCACAGTTCTATGG  
GGCTCTTCTGGGCACAGTCTGCATGCTGTATTTGCTGCCACTCTGCTGGGTTCTCACCTTTTAAACAGC  
ACGCTCTTCTGGGGAATGTGGAGTTCTCCGAGTTGTGTCTGAGTACAGGGCATCTCTGCAGCAGAGGA  
TGAACCCAAAGCAGGAAGAGCATGCCTTTGAGAGTCTCCACCACCAGATGTTGGGGGAAGGATGGTCT  
GATGGACAGCACGCTGCCCTCACACCCACGGAGACCTCACACCGGGCAGCGTGGAGGAGGCTGAGGAG  
GCTGAGCCAGATGAAGAGTTTAAAGATGCGATTGAGGAGACCCACTTGGTGGTGGAGGATGATGAGG  
GCGCCCCGTGCCAGCAGAGGATGAGCTGGCCCTGCAGGACAACGGGTTCTGAGCAAGAATGAGGTGCT  
GCGCAGCAAGGTGCTCAGGCTCACGGAGCGGCTCCGCAAGCGCTACCCCAACAACTTCGGAAGTGC  
ACGGGCTGCTCGGCCACCTTCTCAGTGCTGAAGAAGAGCGGAGCTGCAGTAATTGTGAAACAGCTTCT  
GCTCTCGATGCTGCTCCTTCAAGGTGCCAAGTCATCCATGGGGCCACAGCCCTGAAGCCAGAGGGA  
GACTGTGTTTGTGTGCTCGTGAACAGACCTTGAGCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG206193 representing NM\_144588  
Red=Cloning site Green=Tags(s)

MQTSEREGSGPELSPVSMPEAPLESPPFPPTKSPAFDLFNLVLSYKRLINLEPLKDAGDGVRYLLRWQMP  
 LCSLLTCLGLNLVFLTLNEGAWYSVGMALMISVPALLGYLQEVCRARLPDSELMRRKYHYSVRQEDLQRVRL  
 SRPEAVAEVKSFLLIQLEAFLSRLCCTCEAAYRVLHWENPVVSSQFYGALLGTVCMLYLLPLCWVLTLLNS  
 TLFLGNVEFFRVVSEYRASLQQRMNPKQEEHAFESPPPPDVGGKDGMLDSTPALTPTEDLTPGSVEEAE  
 AEPDEEFKDAIEETHLVVLEDDGAPCPAEDELALQDNGFLSKNEVLRSKVSRLLTERLRKRYPTNNGNC  
 TGCSATFVLKRRRSCSNCGNSFCRCCSFKVPKSSMGATAPEAQRETVFVCASCNQTLTK

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_144588

**ORF Size:** 1233 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\\_144588.4](#), [NP\\_653189.3](#)

**RefSeq Size:** 3030 bp

**RefSeq ORF:** 1236 bp

**Locus ID:** 118813

**UniProt ID:** [Q5T4F4](#)

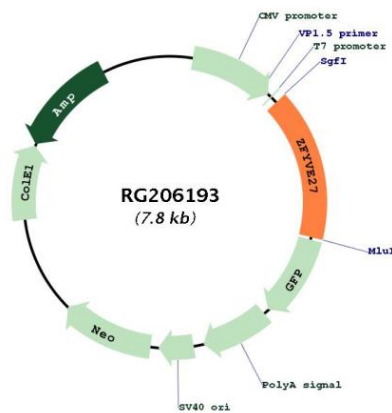
**Cytogenetics:** 10q24.2

**Domains:** FYVE

**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 RG206193