

## Product datasheet for **RG229877**

### ZFYVE27 (NM\_001174120) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_001174120) 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:	>RG229877 representing NM_001174120 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCAGACATCAGAACGTGAGGGGAGTGGGCCGGAGCTGAGCCCCAGCGTGATGCCCGAGGCTCCCCTGG  
AGTCTCCACCTTTTCTACCAAGTCCCCAGCGTTTGACCTTTTCAACTTGGTTCTCTCTACAAGAGGCT  
GGAGATCTACCTGGAACCCTTGAAGGATGCAGGTGATGGTGTTCGATACTTGCTCAGCTTGATCCAGCTG  
GAGGCCTTCTGAGCCGCTGTGCTGCACATGTGAAGCCGCTACCGCGTGTGCTGACTGGGAGAACCCCG  
TCGTGTCTCACAGTTCTATGGGGCTTCTTGGGCACAGTCTGCATGCTGTATTTGCTGCCACTCTGCTG  
GGTTCTCACCCTTTTAAACAGCACGCTCTTTCTGGGGAATGTGGAGTTCTTCCGAGTTGTGTCTGAGTAC  
AGGGCATCTCTGCAGCAGAGGATGAACCCAAAGCAGGAAGAGCATGCCTTTGAGAGTCTCCACCACCAG  
ATGTTGGGGGAAGGATGGTCTGATGGACAGCACGCTGCCCTCACCCACGGAGGACCTCACACCCGGG  
CAGCGTGGAGGAGGCTGAGGAGGCTGAGCCAGATGAAGAGTTTAAAGATGCGATTGAGGAGGATGATGAG  
GGCGCCCGTGCCAGCAGAGGATGAGCTGGCCCTGCAGGACAACGGGTTCTGAGCAAGAAATGAGGTGC  
TGCGCAGCAAGGTGTCTCGGCTCACGGAGCGGCTCCGCAAGCGCTACCCACCAACAACCTCGGGAACCTG  
CACGGGCTGCTCGCCACCTTCTCAGTGTGAAGAAGAGGCGGAGCTGCAGTAATTGTGGAACAGCTTC  
TGCTCTCGATGCTGCTCCTTCAAGGTGCCAAGTCCATCCATGGGGCCACAGCCCTGAAGCCCAGAGGG  
AGACTGTGTTGTGTGCTCGCTCGTGAACCCAGACCTTGAGCAAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG229877 representing NM\_001174120  
Red=Cloning site Green=Tags(s)

MQTSEREGSGPELSPSVMPEAPLESPPFPKSPAFDLFNLVLSYKRLEIYLEPLKDAGDGVRYLLSLIQL  
 EAFLSRLCCTCEAAYRVLHWNPVVSSQFYGALLGTVCMLYLLPLCWVLLNLSLFLGNVEFFRVVSEY  
 RASLQQRMNPKQEEHAFESPPPPDVGGKDGLMDSTPALTPEDLTPGSVEEAEAEPEDEEFKDAIEEDDE  
 GAPCPAEDELALQDNGFLSKNEVLRKVSRLTERLRKRYPTNFGNCTGCSATFVLKRRRSCSNCGNSF  
 CSRCCSFKVPKSSMGATAPEAQRETVFVCASCNQTL SK

TRTRPLE - GFP Tag - V

**Restriction Sites:**

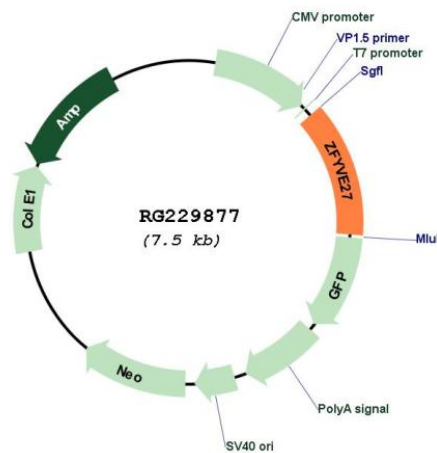
SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_001174120

**ORF Size:** 954 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001174120.1</a> , <a href="#">NP_001167591.1</a>
<b>RefSeq Size:</b>	2776 bp
<b>RefSeq ORF:</b>	957 bp
<b>Locus ID:</b>	118813
<b>UniProt ID:</b>	<a href="#">Q5T4F4</a>
<b>Cytogenetics:</b>	10q24.2
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]