

## Product datasheet for SC328594

### ZFYVE27 (NM\_001174119) Human Untagged Clone

#### Product data:

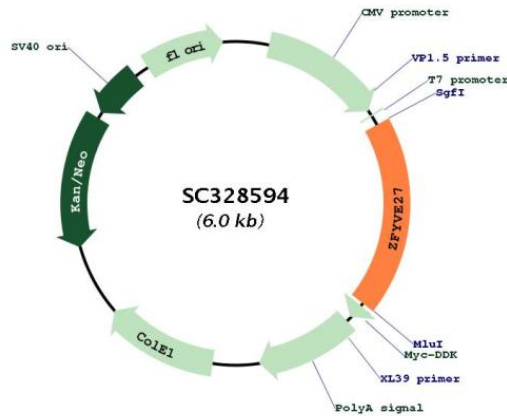
Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_001174119) Human Untagged Clone
Tag:	Tag Free
Symbol:	ZFYVE27
Synonyms:	PROTRUDIN; SPG33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC328594 representing NM_001174119. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAGACATCAGAACGTGAGGGGAGTGGGCCGGAGCTGAGCCCCAGCGTGATGCCCGAGGCTCCCTG
GAGTCTCCACCTTTCTACCAAGTCCCCAGCGTTTGACCTTTTCAACTGGTTCTCTCTACAAGAGG
CTGGAGATCTACCTGGAACCTTGAAGGATGCAGGTGCATGGTACTCAGTAGGTGCCCTGATGATTTCA
GTGCCCGCCTGCTGGGTACCTTCAGGAGTTTGCCGGGCACGGCTGCCTGATTCCGAGCTGATGCCG
AGGAAGTATCATAGCGTGAGGCAGGAGGACCTGCAGAGAGGTCGCTGTCTCGTCCCGAGGCCGTGGCT
GAGGTGAAGAGCTTCTTGATCCAGCTGGAGGCCCTCCTGAGCCGCTGTGCTGCACATGTGAAGCCGCC
TACCGCGTGTGACTGGGAGAACCCCGTGTGCTCCTCACAGTTCTATGGGGCTCTCTGGGCACAGTC
TGATGCTGTATTTGCTGCCACTCTGCTGGTTCTCACCTTTTAAACAGCACGCTCTTTCTGGGAAT
GTGGAGTTCTCCGAGTTGTGTCTGAGTACAGGGCATCTCTGCAGCAGAGGATGAACCCAAAGCAGGAA
GAGCATGCCTTTGAGAGTCTCCACCACAGATGTTGGGGGAAGGATGGTCTGATGGACAGCACGCT
GCCCTCACACCCACGGAGGACCTCACACCGGCAGCGTGGAGGAGGCTGAGGAGGCTGAGCCAGATGAA
GAGTTTAAAGATGCGATTGAGGAGGATGATGAGGGCGCCCGTGGCCAGCAGAGGATGAGCTGGCCCTG
CAGGACAACGGGTTCTGAGCAAGAATGAGGTGCTGCGCAGCAAGGTGTCTCGGCTCACGGAGCGGCTC
CGCAAGCGTACCCACCAACAACCTTCGGGAACGCACGGGCTGCTCGGCCACCTTCTCAGTGTGAAG
AAGAGGCGGAGCTGCAGTAATTGTGAAACAGCTTCTGCTCTCGATGCTGCTCCTTCAAGGTGCCAAG
TCCTCCATGGGGCCACAGCCCTGAAGCCCAGAGGGAGACTGTGTTTGTGTGCTCCTGTAACCCAG
ACCTTGAGCAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001174119

**Insert Size:** 1119 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001174119.1](#)

**RefSeq Size:** 2938 bp

**RefSeq ORF:** 1119 bp

**Locus ID:** 118813

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

**Cytogenetics:** 10q24.2

**Protein Families:** Transmembrane

**MW:** 41.4 kDa

**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]  
Transcript Variant: This variant (4) differs in the 5' UTR, uses two alternate in-frame splice sites, and lacks two in-frame alternate exons compared to variant 1. This results in a shorter protein (isoform d), compared to isoform a.