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Product datasheet for SC310427

ZFYVE27 (NM_144588) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFYVE27 (NM_144588) 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:	>SC310427 representing NM_144588. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGCAGACATCAGAACGTGAGGGGAGTGGGCCGGAGCTGAGCCCCAGCGTGATGCCCGAGGCTCCCCTG GAGTCTCCACCTTTTCCTACCAAGTCCCCAGCGTTTGACCTTTTCAACTTGGTTCTCTCCTACAAGAGG CTGGAGATCTACCTGGAACCCTTGAAGGATGCAGGTGATGGTGTTCGATACTTGCTCAGGTGGCAGATG CCTTTGTGTTCCTTGCTGACCTGCCTGGGCCTCAACGTCTTGTTCCTCACTTTGAATGAGGGTGCATGG TACTCAGTAGGTGCCCTGATGATTTCAGTGCCCGCCCTGCTGGGCTACCTTCAGGAGGTTTGCCGGGCA CGGCTGCCTGATTCCGAGCTGATGCGGAGGAAGTATCATAGCGTGAGGCAGGAGGACCTGCAGAGAGGT CGCCTGTCTCGTCCCGAGGCCGTGGCTGAGGTGAAGAGCTTCTTGATCCAGCTGGAGGCCTTCCTGAGC CGCCTGTGCTGCACATGTGAAGCCGCCTACCGCGTGCTGCACTGGGAGAACCCCGTCGTGTCCTCACAG TTCTATGGGGCTCTTCTGGGCACAGTCTGCATGCTGTATTTGCTGCCACTCTGCTGGGTTCTCACCCTT TTAAACAGCACGCTCTTTCTGGGGAATGTGGAGTTCTTCCGAGTTGTGTCTGAGTACAGGGCATCTCTG CAGCAGAGGATGAACCCAAAGCAGGAAGAGCATGCCTTTGAGAGTCCTCCACCACCAGATGTTGGGGGG AAGGATGGTCTGATGGACAGCACGCCTGCCCTCACACCCACGGAGGACCTCACACCGGGCAGCGTGGAG GAGGCTGAGGAGGCTGAGCCAGATGAAGAGTTTAAAGATGCGATTGAGGAGACCCACTTGGTGGTGCTG GAGGATGATGAGGGCGCCCCGTGCCCAGCAGAGGATGAGCTGGCCCTGCAGGACAACGGGTTCCTGAGC AAGAATGAGGTGCTGCGCAGCAAGGTGTCTCGGCTCACGGAGCGGCTCCGCAAGCGCTACCCCACCAAC AACTTCGGGAACTGCACGGGCTGCTCGGCCACCTTCTCAGTGCTGAAGAAGAGGCGGAGCTGCAGTAAT TGTGGAAACAGCTTCTGCTCTCGATGCTGCTCCTTCAAGGTGCCCAAGTCCTCCATGGGGGCCACAGCC CCTGAAGCCCAGAGGGAGACTGTGTTTGTGTGTGCCTCGTGTAACCAGACCTTGAGCAAGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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Plasmid Map:

ACCN:	NM_144588
Insert Size:	1236 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_144588.6
RefSeq Size:	3059 bp
RefSeq ORF:	1236 bp
Locus ID:	118813
UniProt ID:	Q5T4F4
Cytogenetics:	10q24.2
Domains:	FYVE
Protein Families:	Transmembrane
MW:	45.8 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 (2) differs in the 5' UTR and uses an alternate in-frame splice site in the middle portion of the coding region, compared to variant 1. This results in a shorter protein (isoform b), compared to isoform a.