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Product datasheet for SC313342

SHARPIN (NM_030974) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHARPIN (NM_030974) Human Untagged Clone
Tag:	Tag Free
Symbol:	SHARPIN
Synonyms:	SIPL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313342 representing NM_030974. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGCGCCGCCAGCGGGCGGGGCGGCGGCGGCCTCGGACTTGGGCTCCGCCGCAGTGCTCTTGGCT GTGCACGCCGCGGTGAGGCCGCTGGGCGCCGGGCCAGACGCCGAGGCACAGCTGCGGAGGCTGCAGCTG AGCGCGGACCCTGAGCGGCCTGGGCGCTTCCGGCTGGAGCTGCTGGGCGCGGGACCTGGGGCGGTTAAT TTGGAGTGGCCCCTGGAGTCAGTTTCCTACACCATCCGAGGCCCCACCCAGCACGAGCTACAGCCTCCA CCAGGAGGGCCTGGAACCCTCAGCCTGCACTTCCTCAACCCTCAGGAAGCTCAGCGGTGGGCAGTCCTA GTCCGAGGTGCCACCGTGGAAGGACAGAATGGCAGCAAGAGCAACTCACCACCAGCCTTGGGCCCAGAA GCATGCCCTGTCTCCCTGCCCAGTCCCCCGGAAGCCTCCACACTCAAGGGCCCTCCACCTGAGGCAGAT CTTCCTAGGAGCCCTGGAAACTTGACGGAGAGAGAAGAGCTGGCAGGGAGCCTGGCCCGGGCTATTGCA GGTGGAGACGAGAAGGGGGCAGCCCAAGTGGCAGCCGTCCTGGCCCAGCATCGTGTGGCCCTGAGTGTT CAGCTTCAGGAGGCCTGCTTCCCACCTGGCCCCATCAGGCTGCAGGTCACACTTGAAGACGCTGCCTCT GCCGCATCCGCCGCGTCCTCTGCACACGTTGCCCTGCAGGTCCACCCCCACTGCACTGTTGCAGCTCTC CAGGAGCAGGTGTTCTCAGAGCTCGGTTTCCCGCCAGCCGTGCAACGCTGGGTCATCGGACGGTGCCTG TGTGTGCCTGAGCGCAGCCTTGCCTCTTACGGGGTTCGGCAGGATGGGGACCCTGCTTTCCTCTACTTG CTGTCAGCTCCTCGAGAAGCCCCAGCCACAGGACCTAGCCCTCAGCACCCCCAGAAGATGGACGGGGAA CTTGGACGCTTGTTTCCCCCATCATTGGGGCTACCCCCAGGCCCCCAGCCAGCTGCCTCCAGCCTGCCC AGTCCACTCCAGCCCAGCTGGTCCTGTCCTTCCTGCACCTTCATCAATGCCCCAGACCGCCCTGGCTGT GAGATGTGTAGCACCCAGAGGCCCTGCACTTGGGACCCCCTTGCTGCAGCTTCCACCTAG ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI

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ACCN:	NM_030974
Insert Size:	1164 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_030974.3
RefSeq Size:	1816 bp
RefSeq ORF:	1164 bp
Locus ID:	81858
UniProt ID:	Q9H0F6
Cytogenetics:	8q24.3
Domains:	zf-RanBP
Protein Families:	Druggable Genome
MW:	39.9 kDa

Gene Summary: Component of the LUBAC complex which conjugates linear polyubiquitin chains in a head-to-tail manner to substrates and plays a key role in NF-kappa-B activation and regulation of inflammation. LUBAC conjugates linear polyubiquitin to IKBKG and RIPK1 and is involved in activation of the canonical NF-kappa-B and the JNK signaling pathways. Linear ubiquitination mediated by the LUBAC complex interferes with TNF-induced cell death and thereby prevents inflammation. LUBAC is recruited to the TNF-R1 signaling complex (TNF-RSC) following polyubiquitination of TNF-RSC components by BIRC2 and/or BIRC3 and to conjugate linear polyubiquitin to IKBKG and possibly other components contributing to the stability of the complex. Together with OTULIN, the LUBAC complex regulates the canonical Wnt signaling during angiogenesis.[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) includes all coding exons, is not a candidate for nonsense-mediated decay, and encodes the protein product.