

## Product datasheet for **RG222012**

### SHARPIN (NM\_030974) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** SHARPIN (NM\_030974) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** SHARPIN  
**Synonyms:** SIPL1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG222012 representing NM\_030974  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCCCGCAGCGGGCGGGCGGGCGGGCGGGCGGCGCTCGGACTTGGGCTCCGCCGAGTGTCTTGGCTG  
TGCACGCCCGGTGAGGCCGCTGGGCGCCGGGCCAGACGCCGAGGCACAGCTGCGGAGGCTGCAGCTGAG  
CGCGGACCCTGAGAGGCCTGGGCGCTTCCGGCTGGAGCTGCTGGGCGGGACCTGGGGCGGTTAATTTG  
GAGTGGCCCTGGAGTCAGTTTCTACACCATCCGAGGCCACCAGCACGAGCTACAGCCTCCACCAG  
GAGGGCCTGGAACCCTCAGCCTGCCTTCTCAACCTCAGGAAGCTCAGCGGTGGGAGTCTAGTCCG  
AGGTGCCACCGTGAAGGACAGAATGGCAGCAAGAGCAACTCACCACCAGCCTTGGGCCAGAACATGC  
CCTGTCTCCCTGCCAGTCCCCCGGAAGCCTCCACACTCAAGGGCCCTCCACTGAGGCAGATCTTCTTA  
GGAGCCCTGGAACCTTGACGGAGAGAGAAGAGCTGGCAGGGAGCCTGGCCCGGGCTATTGCAGGTGGAGA  
CGAGAAGGGGGCAGCCCAAGTGGCAGCCGCTCTGGCCAGCATCGTGTGGCCCTGAGTGTTCAGCTTCAG  
GAGGCCTGCTTCCCACCTGGCCCATCAGGCTGCAGGTCAACTGAAGACGCTGCCTCTGCCGATCCG  
CCGCGTCTTGACACGTTGCCCTGCGGGTCCACCCCACTGCACTGTTGCAGCTCTCCAGGAGCAGGT  
GTTCTCAGAGCTCGGTTTCCGCCAGCCGTGCAACGCTGGGTATCGGACGGTGCCTGTGTGTGCCTGAG  
CGCAGCCTTGCCCTTACGGGGTTCGGCAGGATGGGACCCTGCTTCTACTTGTGTCAGCTCCTC  
GAGAAGCCCCAGCCACAGGACCTAGCCCTCAGCACCCCAAGATGGACGGGGAACCTGGACGCTTGT  
TCCCCATCATTGGGGCTACCCAGGCCCCAGCCAGCTGCCTCCAGCCTGCCAGTCCACTCCAGCCCA  
GCTGGTCTGTCTTCTGCACCTTCATCAATGCCCCAGACCGCCTGGCTGTGAGATGTGTAGCACCCA  
GAGGCCCTGCACTTGGGACCCCTTGTGCAGCTTCCACCTAGCAGCCACCAGAGGTTACAAGGGGAGAG  
TGGCCCTTCCCTCACAAGTCCGACATCTCCAGGCCCCAC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG222012 representing NM\_030974  
 Red=Cloning site Green=Tags(s)

MAPPAGGAAAAAASDLGSAAVLLAVHAAVRPLGAGPDAAEQLRRLQLSADPERPGRFRLELLGAGPGAVNL  
 EWPLESVSYTIRGPTQHELQPPPGPGTSLHFLNPQEAQRWAVLVRGATVEGQNGSKSNSPPALGPEAC  
 PVSLPSPPEASTLKGPPEADLPRSPGNLTEREELAGSLARAIAGGDEKAAQVAAVLAQHRVALSVQLQ  
 EACFPFGPIRLQVTLEDAASAASAASSAHVALRVHPHCTVAALQEQVFSLELGFPPAVQRWVIGRCLCVPE  
 RSLASYGVRQDGDPAFLYLLSAPREAPATGSPQHPQKMDGELGRLFPPSLGLPQAPSQLPPACPVHSSP  
 AGPVLPAPSSMPQTALAVRCVAPRGPALGTPLLQLPPSSHQRLQGESGPSLTSPSPGPH

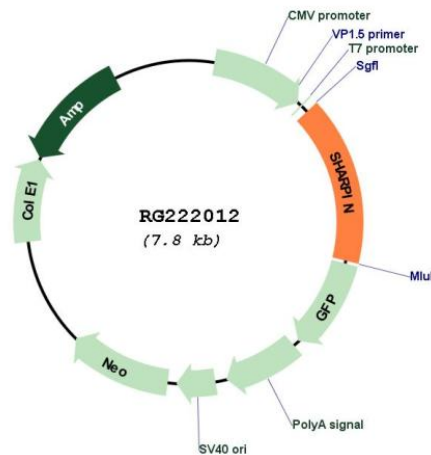
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_030974

<b>ORF Size:</b>	1230 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_030974.2</a> , <a href="#">NP_112236.2</a>
<b>RefSeq Size:</b>	1765 bp
<b>RefSeq ORF:</b>	1164 bp
<b>Locus ID:</b>	81858
<b>UniProt ID:</b>	<a href="#">Q9H0F6</a>
<b>Cytogenetics:</b>	8q24.3
<b>Domains:</b>	zf-RanBP
<b>Protein Families:</b>	Druggable Genome
<b>Gene Summary:</b>	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]