

Product datasheet for **RG207507**

SHQ1 (NM_018130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHQ1 (NM_018130) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SHQ1
Synonyms:	GRIM-1; Shq1p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207507 representing NM_018130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGACCCCGCGTTCGACCTCAGCCAGGATCCGGAATTCCTGACTATCGCCATCCGCGTGCCCTACG
 CCCGGGTCTCCGAGTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGTTCTACGCCAAGCCATACTTTCT
 CAGATTAAACCTTCTCGAAGAATTGTAGAAAATGGAAGTGAGCAAGGGTCTATGATGCAGATAAAGGA
 ATTTTTACCATTGCGCTGCCCAAAGAAACCCCTGGCCAGCATTTTGAGGGGTGAACATGTTAACTGCTC
 TTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGAAGAAATAGGTGCTTCTGAGATTCCTGA
 GGAAGTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCTGTGAAGAGGTATCAGAAAGT
 GCTTTGAATCCGAGTGCCACTATGGATTTGAAACTTACGATCAGGAGTGTGCAACGGTTACAGGATG
 AACTGAGTGATGTTATTGATATTAAGGATCCAGATTTACCCCTGCAGCTGAACGAAGACAGAAGCGCT
 GGCCGCTGAGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGACTTTTTTGAAGATGAGGCGATTGAA
 CAGATTTTGAAGTATAATCCTTGGTGGACTGACAAATATTCAAAAATGATGGCCTTTTTTGGAAAAGAGTC
 AGGAACAAGAAAATCATGCTACATTAGTGTCTTTTTCTGAAGAAGAGAAGTATCAGCTACGAAAATTTGT
 CAATAATCTTATCTGCTGGACAAGAGAGCCTGTCGTCAGTGTGCTACAGTTTGATTGATATCCTTCTG
 GCATATTGCTATGAAACCCGTGCTCACTGAAGGAGAGAAGAATGTTGAATCTGCATGGAATATCAGGAAAC
 TGAGTCCAACACTATGCTGGTTTGAGACTTGGACTAACGTTTCATGATATCATGGTGTCTTTTGAAGAAG
 GGTGTTGTGTACCCACTCTATCGCCATTTCAAGCTGGTGATGAAGGCCACAGGGACACTATAAAGATA
 TTGCAACTGGGTAAAAGTGACGTTTTAAAGTGTCTCCTGGATATTCACAAAATTTTTCAGGAAAATGACC
 CAGCGTACATACTGAATGATCTCTACATCTCAGACTACTGTGTGGATTGAGAAAGTCAATCCAAAAA
 GTTGGCAGCTCTTGACAGAAGCCTTAAAGGAAGTCTCCCTTACAAAGGCCAGCTGGGGTTAGAACTGGAA
 GAACTAGAAGCAGCAGCACTGCTTGTCCAGGAGGAAGAACTGCATTAAGCAGCCATTTCAGTTTCTG
 GGCAGCAGACACTTTGCTCCAGCTCTGAGGCAAGTGATTCGGAGGACTCAGACAGCAGCGTGTCTCTGG
 AAACGAAGACTCAGGCTCAGATTCAGAACAAAGTGAAGTCAAGATAGTCCATCTGAGACAGTCACTTCT
 TTGCAAGGTCCCTTTCTGAAGAAAGCAGTGCCTTTCTATTGTTGATGGTGGAGTACGCAGAAACACAG
 CCATCCAGGAGTCTGATGCCAGTCAGGGAAGCCACTTGCCTCTTCTGGCCTCTGGAGTGTCTGGGCC
 TCTGATAGAGGAGCTTGGGAACAAGTGAAGACTACAGTTCAGGTTTCTGAACCAAGGGCACCAGTCTG
 GTAAACCGCAGCAATATTCAGGAGAGAGACGGCTGTCAGACACCAATAAT

ACGCGTACGCGGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

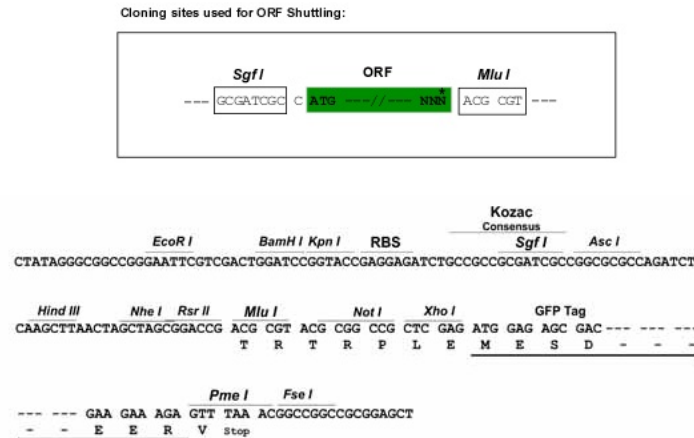
>RG207507 representing NM_018130
 Red=Cloning site Green=Tags(s)

MLTPAFDLSQDPDLTIAIRVPYARVSEFDVYFEGSDFKFYAKPYFLRLTLPGRIVENGSEQGSYDADKG
 IFITIRLPKETPGQHFEGNLMTALLAPRKSRTAKPLVEEIGASEIPEEVVDDEEFDWEIEQTPCEEVSES
 ALNPQCHYFGNLRSGVLQRLQDELSDVIDIKDPDFTPAEERRQKRLAAELAKFDPDHYLADFFEDEAIE
 QILKYNPWWDKYSKMMAFLEKSQEENHATLVSFSEEEKYQLRKFNKSYLLDKRACRQVCYSLIDILL
 AYCETRVTEGEKNVESAWNIRKLSPTLCWFETWTNVHDIMVSFGRRVLCYPLYRHFKLVMKAYRDTIKI
 LQLGKSAVLKLLDIHKIFQENDPAYILNDLYISDYCVWIQKVKSKLAALAEALKEVSLTKAQLGLELE
 ELEAAALLVQEEETALKAAHSVSGQQLCSSEASDSESDSSVSSGNEDSGDSEQDELKDSPTSETVSS
 LQGPFLIESSAFLIVDGGVRRNTAIQESDASQGKPLASSWPLGVSGPLIEELGEQLKTTVQVSEPKGTTA
 VNRSNIQERDGCQTPNN

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_018130

ORF Size: 1731 bp

OTI Disclaimer: 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. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_018130.3](#)

RefSeq Size: 2861 bp

RefSeq ORF: 1734 bp

Locus ID: 55164

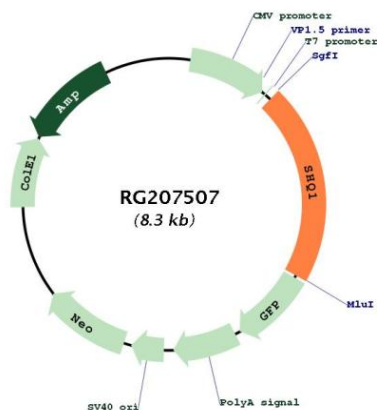
UniProt ID: [Q6PI26](#)

Cytogenetics: 3p13

Domains: SHQ1

Gene Summary: SHQ1 assists in the assembly of H/ACA-box ribonucleoproteins that function in the processing of ribosomal RNAs, modification of spliceosomal small nuclear RNAs, and stabilization of telomerase (see MIM 602322) (Grozdanov et al., 2009 [PubMed 19383767]). [supplied by OMIM, Dec 2010]

Product images:



Circular map for RG207507