

Product datasheet for **RC207507**

SHQ1 (NM_018130) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SHQ1 (NM_018130) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SHQ1
Synonyms:	GRIM-1; Shq1p
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207507 representing NM_018130
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGACCCCGCGTTCGACCTCAGCCAGGATCCGACTTCCTGACTATCGCCATCCGCGTGCCCTACG
 CCCGGGTCTCCGAGTTCGACGTCTACTTCGAGGGGTCTGACTTCAAGTTCTACGCCAAGCCATACTTTCT
 CAGATTAAACCTTCTCGAAGAATTGTAGAAAATGGAAGTGAGCAAGGGTCTATGATGCAGATAAAGGA
 ATTTTTACCATTGCGCTGCCCAAAGAAACCCCTGGCCAGCATTTTGAGGGGTGAACATGTTAACTGCTC
 TTCTGGCACCAAGAAAATCCAGGACAGCAAAACCACTTGTGGAAGAAATAGGTGCTTCTGAGATTCCTGA
 GGAAGTAGTTGACGATGAAGAGTTTGATTGGGAAATTGAGCAGACACCCTGTGAAGAGGTATCAGAAAGT
 GCTTTGAATCCGAGTGCCACTATGGATTTGAAACTTACGATCAGGAGTGTGCAACGGTTACAGGATG
 AACTGAGTGATGTTATTGATATTAAGGATCCAGATTTACCCCTGCAGCTGAACGAAGACAGAAGCGCT
 GGCCGCTGAGCTGGCCAAGTTTGATCCTGATCATTATCTAGCTGACTTTTTTGAAGATGAGGCGATTGAA
 CAGATTTTGAAGTATAATCCTTGGTGGACTGACAAATATTCAAAAATGATGGCCTTTTTTGGAAAAGAGTC
 AGGAACAAGAAAATCATGCTACATTAGTGTCTTTTTCTGAAGAAGAGAAGTATCAGCTACGAAAATTTGT
 CAATAATCTTATCTGCTGGACAAGAGAGCCTGTCGTCAGTGTGCTACAGTTTGATTGATATCCTTCTG
 GCATATTGCTATGAAACCCGTGCTCACTGAAGGAGAGAAGAATGTTGAATCTGCATGGAATATCAGGAAAC
 TGAGTCCAACACTATGCTGGTTTGAGACTTGGACTAACGTTTCATGATATCATGGTGTCTTTTGAAGAAG
 GGTGTTGTGTTACCCACTCTATCGCCATTTCAAGCTGGTGATGAAGGCCACAGGGACACTATAAAGATA
 TTGCAACTGGGTAAAAGTGACGTTTTAAAGTGTCTCCTGGATATTCACAAAATTTTTTCAAGAAAATGACC
 CAGCGTACATACTGAATGATCTCTACATCTCAGACTACTGTGTGATTGAGAAAGTCAATCCAAAAA
 GTTGGCAGCTCTTGCAGAAGCCTTAAAGGAAGTCTCCCTTACAAAGGCCAGCTGGGGTTAGAACTGGAA
 GAACTAGAAGCAGCAGCACTGCTTGTCCAGGAGGAAGAACTGCATTAAGCAGCCATTTCAGTTTCTG
 GGCAGCAGACACTTTGCTCCAGCTCTGAGGCAAGTGATTCGGAGGACTCAGACAGCAGCGTGTCTCTGG
 AAACGAAGACTCAGGCTCAGATTCAGAACAAGTGAACCTCAAAGATAGTCCATCTGAGACAGTCAGTTCT
 TTGCAAGGTCCCTTTCTGAAGAAAGCAGTGCCTTTCTATTGTTGATGGTGGAGTACGCAGAAACACAG
 CCATCCAGGAGTCTGATGCCAGTCAGGGAAGCCACTTGCCTCTTCTGGCCTCTGGAGTGTCTGGGCC
 TCTGATAGAGGAGCTTGGGAACAACCTGAAGACTACAGTTCAGGTTTCTGAACCAAGGGCACCAGTCT
 GTAAACCGCAGCAATATTCAGGAGAGAGACGGCTGTCAGACACCAATAAT

ACGCGTACGCGGCGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207507 representing NM_018130
 Red=Cloning site Green=Tags(s)

MLTPAFDLSQDPDFLTIAIRVPYARVSEFDVYFEGSDFKFYAKPYFLRLTLPGRIVENGSEQGSYDADKG
 IFTIRLPKETPGQHFEGLNMLTALLAPRKSRTAKPLVEEIGASEIPEEVVDDEEFDWEIEQTPCEEVSES
 ALNPQCHYGFGNLRSGVLQRLQDELSDVIDIKDPDFTPAAEERRQKRLAELAKFDPDHYLADFFEDEAIE
 QILKYNPWWTDKYSKMAFLEKSQEENHATLVSFSEEEKYQLRKFVNKSYLLDKRACRQVCYSLIDILL
 AYCETRVTEGEKNVESAWNIRKLSPTLCWFETWTNVHDIMVSFGRRVLCYPLYRHFKLVMKAYRDTIKI
 LQLGKSAVLKCLLDIHKIFQENDPAYILNDLYISDYCVWIQVKVSKKLAALAEALKEVSLTKAQLGLELE
 ELEAAALLVQEEETALKAAHSVSGQQTLCSSSEASDSEDSDSSVSSGNEDSGDSEQDELKDSPTSETVSS
 LQGPFLIESSAFLIVDGGVRRNTAIQESDASQGKPLASSWPLGVSGPLIEELGEQLKTTVQVSEPKGTTA
 VNRSNIQERDGCQTPNN

TRTRPLE**QKLISEEDLA**NDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3521_f09.zip

Restriction Sites:

Sgfl-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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_018130.3](#)

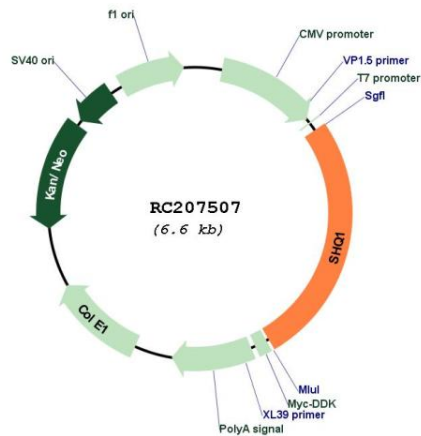
RefSeq Size: 2861 bp

RefSeq ORF: 1734 bp

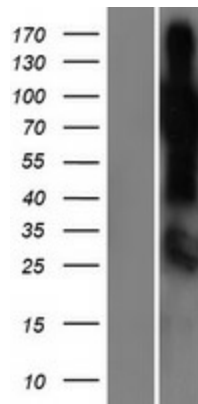
Locus ID: 55164

UniProt ID:	Q6PI26
Cytogenetics:	3p13
Domains:	SHQ1
MW:	64.9 kDa
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]

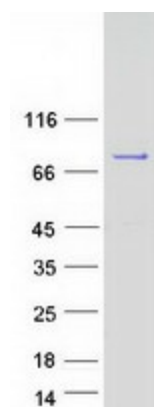
Product images:



Circular map for RC207507



Western blot validation of overexpression lysate (Cat# [LY413283]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207507 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SHQ1 protein (Cat# [TP307507]). The protein was produced from HEK293T cells transfected with SHQ1 cDNA clone (Cat# RC207507) using MegaTran 2.0 (Cat# [TT210002]).