

Product datasheet for **SC318434**

C17orf71 (SMG8) (NM_018149) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	C17orf71
Synonyms:	C17orf71
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC318434 representing NM_018149.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTGGTCCCGTGAGCTTGCAGACCTTCTAATGGGAGCATCAGCCTGGATGGGCTCTGAAAGTCCC
GGAGGGTCCCCTACTGAGGGCGGAGGAGCGCGCTGGCGGACCGAGCCTCCATGGCGGGAGGATGAG
ATCTGCGTTGTGGGAATCTTCGGCAAGACGGCTCTACGCCTGAATCCGAGAAGTTCTCTTGTGAAT
ACGGTGTGCGACCGACAGGTCTTCTCTCTTTCGCCACCAAGATCCTGGGGATCCAGGACCTGGAATC
AGAAGTGAAGCTGGCGCCGTGGGTGAGGCCGTGGAGCCGAGGACCTGGGGCTGCAGCCGGGGTTCA
GTTCCGGGAAGTGGAGCTGTGCGGAAGGTAACCGAAGTGAAGGAGGCTCCAGGACTACAGCCTTCTG
CAGGCCCTACTACAGTCAGGAAAGCAAGTTCTGTATCTTCTCCTCACTCCATCTGTGACAATTCACAG
CTTCTCCGGGCTTGTGCGGCTCTTTCAGAGCGGGGAAGCTGGAGGTGGAATCTTTACCTCATGCAGAA
GCACACGAGTTCTGGAAGCATCAAGAGAAGCTGCAGTGCCTCAGTCTCTTTACCTATTCTGTCTGT
CATATCTTGTCTTGGTCCATCCACTTGTCTTTGATATCACTTATGATCGAGTATTCAGAGCCCTG
GATGGGCTGAGACAGAAGGTCTGCCGCTCCTTAAACAGCCATTAAAGGATTGTCCAGTTGGCAAGAC
TGGAAGCTAAACTGCCGACCTTGCCACCTAGACTCCTTTCTCTTTCAACTCAATGGAGCCCTCAAG
GTAGAAGCTCCTCGGAACCAAGACCCAGCTCATCCAGACAAGCCCAAGAAACATTCTCCAAAAGGAGG
CTGCAGCATGCCCTGGAGGACAGATCTATAGAATCTCCGGAAGAGTCGTGTCTTGACTAATCAGAGC
ATCAACTGCCTCTTTACTGTGCTGCCAACCAGCTTTCGTGTACATAGTACCGGGAAGCCAGGAGGAG
GACCCAGTAGGTATGTTGCTGGACCAACTTAGGAGTCACTGTACTGTGAAGGACCCGGAATCTTTGCTG
GTGCTGCACCCCTTTCTGGGCTAGGCGATACCAGGTGATGAGGCAGCACAGCCGACAACAACTTTCC
TTTCACATTGACAGCAGAGTCCAGTCTTTCAGGCCAGCTAGTGGATTTCACTCTTCGGAATTCCTA
TGGCAGCATGTGAGCTAGTTCTAAGCAAGAAAGGTTTCGATGACAGTGTGGGAGGAACCCACAGCCT
TCCCATTTTGAAGTCTCTACTTATCAGAAGTGGATCTCAGCAGCTTCAAACTGTATGAGGTGGCTATT
GATGGGAAAGAGGAGTCTGGGGTCAACCACTGGAGAGCTAACATCTAAGATTTTAAGCAGTATTTAA
GTCTTGAAGGATTTTGGATATTGACACAAAATCTCAGAAAACCGATGCCAAAAGCTTTACCCATG
GCCACAGTGCCTACCAGTCAAATTTGCCTCATAATTACACAATGACTGCCATAAGAATCAGCTTGCC
CAGGCTCTTCGAGTGTACAGTCAACATGCTAGAGGTCCAGCATTTCACAAATACGCCATGCAGTTACAT
GAGGACTGCTACAAATTTTGGAGCAATGGCCATCAGCTCTGTGAGGAGAGGAGTTTAACTGATCAACAC
TGTGTGCACAAATTTCACTCATTACCTAAATCAGGAGAAAAACAGAGGCTGATAGAAATCCGCCTGTG
CTATATCACAATAGCCGAGCTCGATCTACTGGTCTTGCAACTGTGGAAGGAAACAAGCACCTCGAGAT
GATCCCTTTGATATCAAAGCAGCAATTATGACTTCTATCAGCTTCTGGAAGAAAGTGTGTGAAAAA
TTGGATCATATCAATTTCCAGTATTTGAACCAAGTACTCCAGATCCTGCTCCTGCTAAAAATGAATCC
TCTCTGCTCCTCCAGATTCGATGCTGATAAACTTAAAGAAAAAGAACCTCAACCCCAAGGAGAGAGC
ACGAGCCTGAGTTTAGCTTTGAGTTTGGGCCAATCCACAGATAGCTTAGGTACCTATCCAGCTGATCCA
CAAGCAGGAGGAGATAATCCAGAAGTTCATGGTCAAGTAGAAGTGAAGTGAAGTGAAGGCAAACTTC
GTTGATCGACAGGCATCCACAGTTGAGTATCTCCAGGCATGCTACATTCAAATTCCTAAAGGTCTC
CTACCCAAATTTCTCAGCTGGTCTTTGGTTAACTAGGCCCTGCTAAGTCTTATAACTTTATACAGGT
TTGGACCAACAGGGCTTTATTCCAGGAACAAATATCTTATGCCTTGGGACATTGTCTATCAGGACTAGA
GCTGAAGTGAAGGAGACTTAGACACAACTCTTGGCCTGCTCCAAATAAGCTATTCTGGAAGAGA
AGTGCGGTTGTAATGGGAAGAGGAAGACGGCGAGATGACATAGCTCGAGCTTTTGTGGGCTTTGAATAT
GAAGACTCTCGAGGTCGAGATTCTGTGCTCTGGGCTGACAAAGTAATGAAAGTAATGGGAAGTGGG
CCAAAGGAATCAGCTTTAAAGCCCTAAATAGTGACATGCCCTTATATATTCTGTCTCCTCTCAAGGT
AGAGGGCTGAAACCTCATTATGCTCAACTTATGAGGCTTTTGTGTGGTTCCTGATGCTCCTTTGCAG
ATAATACTAATGCCTCAGGTTGAGCCAGGCCACCACCATGTCCGGTATTCTACCCAGAAAAACAAGAA
ATCACCTTCCACCTGATGGCCTTTGGGTTTGGAGATTCTTATGCATATGTGACTGAGAGAGGACCT
TGTTTTCCCCCTAAGGAAATGTGAGTTAATGAGCTACAAGGTGCTCCGTGGGTTCTTAAGGCAGTA
ACACAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_018149

Insert Size:	2976 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_018149.6</u>
RefSeq Size:	3283 bp
RefSeq ORF:	2976 bp
Locus ID:	55181
UniProt ID:	<u>Q8ND04</u>
Cytogenetics:	17q22
MW:	109.7 kDa
Gene Summary:	Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Is recruited by release factors to stalled ribosomes together with SMG1 and SMG9 (forming the SMG1C protein kinase complex) and, in the SMG1C complex, is required to mediate the recruitment of SMG1 to the ribosome:SURF complex and to suppress SMG1 kinase activity until the ribosome:SURF complex locates the exon junction complex (EJC). Acts as a regulator of kinase activity.[UniProtKB/Swiss-Prot Function]