

Product datasheet for **SC113708**

C17orf71 (SMG8) (NM_018149) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	C17orf71
Synonyms:	C17orf71
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF: >NCBI ORF sequence for NM_018149, the custom clone sequence may differ by one or more nucleotides

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ATGGCTGGTCCCGTGAGCTTGCAGACCTTCTAATGGGAGCATCAGCCTGGATGGGCTCTGAAAGTCCCG
GAGGGTCCCCTACTGAGGGCGGAGGGAGCGCGCTGGCGGACCGGAGCCTCCATGGCGGGAGGATGAGAT
CTGCGTTGTGGGAATCTTCGGAAGACGGCTCTACGCCTGAATCCGAGAAGTTCTCTTTGTAATACG
GTGTGCGACCGACAGGTCTTTCTCTCTTTTCGCCACCAAGATCCTGGGGATCCAGGACCTGGAATCAGAA
CTGAGGCTGGCGCCGTGGGTGAGGCCGGTGAGCCGAGGACCCTGGGGCTGCAGCCGGGGGTTTCAGTTTCG
GGGAAGTGGAGCTGTCGCGGAAGGTAACCGAAGTGAGGCAGGCTCCCAGGACTACAGCCTTCTGCAGGCC
TACTACAGTCAGGAAAGCAAAGTTCTGTATCTTCTCCTCACCTCCATCTGTGACAATTCACAGCTTCTCC
GGGCTTGTCTGGGCTCTTCAGAGCGGGGAAGCTGGAGGTGGACTCTTTTACCTCATGCAGAAGCACACGA
GTTCTGGAAGCATCAAGAGAAGCTGCAGTGCCTCAGTCTCCTTTACCTATTCTGTCTGTCTATCTTGTG
CTTCTGGTCCATCCCCTTGTCTTTGATACCTTATGATCGAGTATTCAGAGCCCTGGATGGGCTGA
GACAGAAGGTCCTGCCGCTCCTTAAACAGCCATTAAGGATTGTCCAGTTGGCAAAGACTGGAAGCTAAA
CTGCCGACCTTGCCACCTAGACTCCTTTTCTCTTTCAACTCAATGGAGCCCTCAAGGTAGAACCCTCT
CGGAACCAAGACCCAGCTCATCCAGACAAGCCCAAGAAACATTCTCCAAAAGGAGGCTGCAGCATGCC
TGGAGGACCAGATCTATAGAATCTTCCGGAAGAGTCGTGTCTTGACTAATCAGAGCATCAACTGCCTCTT
TACTGTGCTGCCAACCAAGCTTTCGTGTACATAGTACCGGAAGCCAGGAGGAGGACCCAGTAGGTATG
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CTGGGCTAGGCGATACCAGGTGATGAGGCAGCACAGCCGACAACAACCTTCTTTTACATTGACAGCAG
CAGTTCAGTTCCTCAGGCCAGCTAGTGGATTTCACTCTTCGGAATTCCTATGGCAGCATGTGGAGCTA
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CTTATCAGAAGTGGATCTCAGCAGCTTCAAACTGTATGAGGTGGCTATTGATGGGAAAGAGAGGACTT
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ATTGACACAAAATCTCAGAAAACCGATGCCAAAAGCTTTACCCATGGCCACAGTGCCTACCAGTCAA
ATTTGCCTCATAATTACACAATGACTGTCCATAAGAATCAGCTTGGCCAGGCTCTTCGAGTGTACAGTCA
ACATGTCTAGAGTCCAGCATTTTCAAAAACGCCATGCAGTTACATGAGGACTGCTACAAAATTTTGGAGC
AATGGCCATCAGCTCTGTGAGGAGAGGAGTTTAACTGATCAACACTGTGTGCACAAAATTTCACTCATTAC
CTAAATCAGGAGAAAAACAGAGGCTGATAGAATCCGCCTGTGCTATATCACAAATAGCCGAGCTCGATC
TACTGGTGCTTGCAACTGTGGAAGGAAACAAGCACCTCGAGATGATCCCTTTGATATCAAAGCAGCCAAT
TATGACTTCTATCAGCTTCTGGAAGAAAAGTGTTGTGGAAAATTGGATCATATCAATTTCCAGTATTTG
AACCAAGTACTCCAGATCCTGCTCCTGCTAAAAATGAATCCTCTCTGCTCCTCCAGATTCGGATGCTGA
TAAACTTAAAGAAAAGAACCTCAACCCCAAGGAGAGAGCACGAGCCTGAGTTTGTAGCTTTGAGTTTGGGC
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TTATGCATATGTGACTGAGAGAGGACCTTGTTCCTCCCTAAGGAAAATGTGCAGTTAATGAGCTACAAG
GTGCTCCGTGGGTTCTTAAGGCAGTAACACAATAA
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5' Read Nucleotide
Sequence:

>OriGene 5' read for NM_018149 unedited
 ACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCTAGACTCTTTTCCTTTCACTCA
 TGGAGCCCTCAAGGTAGAACCTCCTCGGAACCAAGACCCAGCTCATCCAGACAAGCCCAA
 GAAACATTCTCCCAAAAGGAGGCTGCAGCATGCCCTGGAGGACCAGATCTATAGAATCTT
 CCGGAAGAGTCGTGTCTTGACTAATCAGAGCATCAACTGCCTCTTTACTGTGCCTGCCAA
 CCAAGCTTTCTGTACATAGTACCGGGAAGCCAGGAGGAGGACCCAGTAGGTATGTTGCT
 GGACCAACTTAGGAGTCATTGTACTGTGAAGGACCCGGAATCTTTGCTGGTGCCTGCACC
 CCTTTCTGGGCCTAGGCATACCAGGTGATGAGGCAGCACAGCCGACAACAACCTTCCCTT
 TCACATTGACAGCAGCAGTTCCAGTTCTTCAGGCCAGCTAGTGGATTTCCTCTTCGGGA
 ATTCCTATGGCAGCATGTGGAGCTAGTTCTAAGCAAGAAAGGTTTCGATGACAGTGTGGG
 CAGGAACCCACAGCCTTCCCATTGAACTTCTACTTATCAGAAGTGGATCTCAGCAGC
 TTCAAAACGTATGAGGTGGCTATTGATGGGAAAGAGAGGACTTGNNGTCACCCACTGGA
 GAGCTAACATCTAAGATTTTAAGCAGTATTAAGTCTTGGAAGGATTTTNGGATAATGAC
 ACAAATTCTCAGAAAACCGATGCCAAAAGCTTACCCATGCCACAGTGGCCTACCAG
 TCAATTTGCCTCATAATACACCATGACTGTNCCATAGAATCAGCTTGCCAGGCTCTTG
 AGTGTACAGTCNACATGCTAGAGGTGAGCATTTTCAATAACGCATGCAGTTACATGAAG
 ACTGCTACAATTTTGGAGCACTGGCATCAGTCTGNTGAGGAAAGGAGTTACTGAACAAC
 TGTGGCACAATTCATCATCACTATTCAGGAAACACANAGCTGTANAN

3' Read Nucleotide
Sequence:

>OriGene 3' read for NM_018149 unedited
 GACCGCGGGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTATATTCTTTCTAGA
 ACAACCAATCTTTATTAGAAAGTTGTAGTCACGTTTACAATAAATATCAACAATATAATG
 AAAAAGTAGAACAAATTAGTTTCCAAATACTGAACCTGTAAACCAAAACACATTTTGA
 TTTGGGAAAACACAGTAAACACATACCAAAAACACAGCCACAATACCAAAAACAAAAAC
 CAGCTCAAGTATAGGATTGAACTGGCTGGAAAACACTTATTGTGTTACTGCCTTAAGAAC
 CCCACGGAGCACCTTGTAGCTATTAAGTGCACATTTTCTTAGGGGGGAAACAAGGTCC
 TCTCTCAGTCACATATGCATAAGGAAATCTCAAAACCAAGGCCATCAGGTGGAAGGGT
 GATTTCTTGTTTTCTGGGTAGAATACCGGACATGGTGGTGGGCCTGGCTGAACCTGAGG
 CATTAGTATTATCTGAAAGGAGCATCAGGAACCACAACAAAAGCCTCATAAGTTGAGC
 ATAATGAGGTTTCAGCCCTCTACCTTGAGAGGATGACAGAATATAAGGGCATGTCACT
 ATTTAGGGCTTTTAAAGCTGATTCCTTTGGCCCACTTCCATTACTTTTCACTTTGTGTC
 AGGCCCAAGACACATGAATCTCCGACCTCGAGAGTCTTCATATTCAAAGCCCAAAAGCT
 CGAGCTATGTCATCTCGCGCTTCTCCTTCCCATTCACCGCACTTCTCTTCCAGGAA
 TAGCTTTATTTGGAGCAAGCCAAGAAGTTGTGTCTAAGTCTCCTTCATCTTCAGCTCTAA
 GCCTGATGAAATGTCCAAGGCATAGATAATTTGTTCTGAATAAAGCCCTGTTGTCCAAA
 CTGTTGAAAGTTAGACTTACAGGGCTATTTACCAAAAACACTGGAAATTCGGTAG

Restriction Sites:

NotI-NotI

ACCN:

NM_018149

Insert Size:

2500 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).

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_018149.1, NP_060619.1</u>
RefSeq Size:	3283 bp
RefSeq ORF:	1929 bp
Locus ID:	55181
UniProt ID:	<u>Q8ND04</u>
Cytogenetics:	17q22
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]