

Product datasheet for **SC108065**

SMCR7L (MIEF1) (NM_019008) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMCR7L (MIEF1) (NM_019008) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMCR7L
Synonyms:	AltMIEF1; dj1104E15.3; HSU79252; MID51; MIEF1-MP; SMCR7L
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_019008, the custom clone sequence may differ by one or more nucleotides

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ATGGCAGGCGCTGGTGAGCGCAAAGGCAAGAAGGATGACAATGGCATTGGCACGGCCATTGACTTTGTGC
TCTCCAATGCCCGGCTGGTGCTGGGGTGGGTGGAGCGGCCATGCTGGGCATCGCCACGCTGGCAGTTAA
GCGGATGTACGATCGGGCGATCAGTGCCCTACCAGCCCCACCCGCTGAGCCATTCGGGAAAAGGAGC
TGGGAAGAACCCAACTGGATGGGCTCCCCAGACTGCTGAACAGGGACATGAAGACGGGCTGAGCCGGT
CCTTGACAGCCCTCCCACAGACTCCTCCACCTTCGACACAGATACATTCTGCCGCCCGCCCAAGCC
AGTGGCCAGGAAGGGCCAGGTAGACTTGAAGAAGTCACGACTCCGCATGTCCCTGCAGGAGAAACTTCTT
ACTTACTACCGGAACCGGGCAGCCATCCCTGCTGGAGAGCAGGCTCGGGCCAAGCAAGCTGCTGTGGACA
TATGTGCCGAGCTCCGGAGCTTCTGCGGGCCAAGTTGCCTGACATGCCGCTTCGGGACATGACTTGGAG
TGGCAGCCTCTACGATGACCTGCAGGTGGTGACAGCTGACCACATCCAACCTATTGTGCCCTTGTGCTG
GAGCAGAACCTGTGGTATGATTCTGGTGAAGACACCATCATGAATGTCCCTGGCTTCTTCTGGTGC
GTCGTGAGAAATCCAGAGTACTTCTCGTGGGAGCAGTTACTGGGACCGCTGTGTAGTAGGGGGCTACCT
CTCTCAAAGACAGTCGCAGATACATTTGAGAAGTAGTGGTGGCTCCATCAATTGGCCAGCCATAGGG
TCCCTCTGGACTATGTGATCCGCCCCGGCCCCACCCCAAGCCCTCACACTGGAGGTGCAGTATGAGC
GTGACAAAACATCTCTTATTGACTTCTGCCATCAGTGACCCTCGGTGACACAGTCTTGGTGGCCAAACC
ACACCGGTAGCCAGTATGACAACCTGTGGCGGCTGAGCCTGCGTCCCGGGAGACGGCAGCCCTGGCG
GCTCTGGACCAGGCTGACTCGGGCTGCCGATCTCTGTGCCTCAAGATCCTCAAGGCCATATGCAAGTCCA
CCCCGGCTCTGGGCCACCTCACTGCCAGCCAGCTAACCAATGTCATCCTCACTTGGCCAGGAGGAGGC
TGACTGGTCTCCGGATATGCTGGCCGACGTTTCTGCAGGCCTTGGGGGACTTATCAGCTACTTAGAG
GCTGGAGTCTGCCAGTGCCCTAAACCCCAAGGTGAACCTATTTGCAGAGCTCACCCCTGAAGAAATAG
ACGAATTAGGATACACTCTGATTGCTCATTGTCTGAGCCAGAGGTGCTGCTGCAGACGTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_019008 unedited
 GGGTTTTCCGACTTAGGTTAACTCNACTCTCCTTTTCATGGNCCGGCCGCAATTCGGCA
 CGAGGCTAGAGGACGCTGAGGCCCTTCTCCACGGCAAATTGGGGAGGATCATTTAGGATC
 CTCCAAGGGAAAGAGGACAAAGGTGCCTTCTGTAGACTCCTGCTCTCTTCCATCCCC
 ATCTTACAGATGTATTAAGAAGCCTCAGATGAGCAATGGCAGGCGCTGGTGAAGCGAAAG
 GCAAGAAGGATGACAATGGCATTGGCACGGCCATTGACTTTGTGCTCTCCAATGCCCGGC
 TGGTCTGGGGGTGGGTGGAGCGCCATGCTGGGCATCGCCACGCTGGCAGTTAAGCGGA
 TGTACGATCGGGGATCAGTGCCCTACCAGCCCCACCCGCTGAGCCATTGCGGGAAAA
 GGAGCTGGGAAGAACCCTGATGGGCTCCCCACGACTGCTGAACAGGGACATGAAGA
 CGGGCCTGAGCCGGTCTTGCAGACCCTTCCCACAGACTCCTCCACCTTCGACACAGGAG
 AAATTCTTACTTACTACCGGAACCCGGCAGCCCTCCCTGCTGGAGAGCACGCTCGGGCC
 AAGCAAGTGTGTGGACATTTGTGCCGAGCTCCGGAAGCTTCTGCGGGCCAAGTTGCC
 CTGACTTGCCGCTTCGGGACATGACTTGTGAGTGGCAGCCTTACCATGACCTGCAAGTGG
 TGACAGCTGACCACTTCCACTCATTGTGCCCTGGGCTGGACCAAAACCCGTTGGGCATG
 TATTCCTGGGGAGACCCCTTCTGATGTCCCTGGCCTCCTTCTGAACGCTGGGAAAATA
 CCAAATACCTTCCCTCGGGGAACAGTTACCGGACCCGTTGGTGAACAAGGGCCCTACC
 CTCTTCAAAGACAGTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_019008 unedited
 TTACCGCGGCCGATTCTAGAGTCGAGTTTTTTTTTTTTTTTTTAACTCTCATTGATT
 CTGACCAACAGAACAGGGTAGATGAGCTCTCTCAAGATTCTCAGCTTTATGTTTTTTGTT
 CCCTCTCAATACCTTTATGCAAATGAACTGAAACCACCATAAGAAATCCTTGTTAAGGG
 GAAAAGAGGCAAAAAGACCTCTAAATATAGTCAAGGTTAACCTAGTTCTCAATTCCTA
 ATCTGTGACAAAAGAGGGGAGGAATCTTACCCTAAATTGATGTTGAGGTATCGATGCT
 AAAGAGTCATTTCTGTTACTATCGTTGGGAAGGAATGAGACAGCTGCAGAGAGCTTAC
 CAGAACCTCAATGATGGAGAGGTAGTCATTGAAAAAATAAGACAATTGACGGAAGGAAA
 ACAAATACTGAATGGGCAGATGAGAAACAGAATTATCATCAGAGTCTTGTACAAAACAG
 GGAAAAACACAAACCAAGATGACACACGGACATGGTAGATTAAACATTCCTCCCACCTT
 CAGGATACATTTACATTGCAATAAATACTGCAATCTCAGCACCGGCAACAAGGAGGAAT
 GTACGAAATGCCACCTCCTCCCCTCTGTCTTATCTGTGTGCCTTTTTCCTTGGGAGCA
 CCGATCCCCCAAGCGCTTGGGTGACAAACAGGACAGTGGCACACGTCGCCAGCTTGTCT
 CACTTTCCTTGGCCCTGTCCGGAACGCTCACAACACCGCTTCTTCTTCCCTATGT
 TAACACCCACGACACGGCTGGCTTTTCGCCCTGTCTCCCCCAGGCATTTCTCCTCAA
 CAACACGGTTGCCTTGAACCTAACCCGGTCCCCTCCCCTCCTTACCGAACTTTCCCACAC
 CTTCCACAATCCCCCACCT

Restriction Sites:

NotI-NotI

ACCN:

NM_019008

Insert Size:

3670 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:	<ol style="list-style-type: none">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_019008.4 , NP_061881.2
RefSeq Size:	5730 bp
RefSeq ORF:	1392 bp
Locus ID:	54471
UniProt ID:	Q9NQG6
Cytogenetics:	22q13.1
Protein Families:	Transmembrane
Gene Summary:	<p>Mitochondrial outer membrane protein which regulates mitochondrial fission. Promotes the recruitment and association of the fission mediator dynamin-related protein 1 (DNM1L) to the mitochondrial surface independently of the mitochondrial fission FIS1 and MFF proteins. Regulates DNM1L GTPase activity and DNM1L oligomerization. Binds ADP and can also bind GDP, although with lower affinity. Does not bind CDP, UDP, ATP, AMP or GTP. Inhibits DNM1L GTPase activity in the absence of bound ADP. Requires ADP to stimulate DNM1L GTPase activity and the assembly of DNM1L into long, oligomeric tubules with a spiral pattern, as opposed to the ring-like DNM1L oligomers observed in the absence of bound ADP. Does not require ADP for its function in recruiting DNM1L.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents a predominant transcript, which encodes a 463aa protein (isoform 1).</p>