

Product datasheet for **SC306122**

SMCR7 (MIEF2) (NM_139162) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SMCR7 (MIEF2) (NM_139162) Human Untagged Clone
Tag:	Tag Free
Symbol:	SMCR7
Synonyms:	COXPD49; MID49; SMCR7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306122 representing NM_139162. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGGCAGAGTTCTCCAGAAACGGGGGAAGCGCGTAGCGACGAAGGGCTGGGCAGCATGGTGGACTTC
CTCCTGGCCAATGCCCGCTGGTCTGGGCGTGGGCGGGGCTGCTGTCTGGGCATTGCCACCCTGGCC
GTGAAGCGGTTCAATGACAGGGCCACTAGCCCGCGGGATGAGGATGACACCAAGGCAGACAGCTGGAAG
GAACTGAGCCTGCTCAAGGCCACACCACCTGCAGCCCCGGCCTCCACCTGCTGCCCTTAGCCAGCCA
GTGTTGCCCTTGCCCCCTCGTCGTCTGCCCCAGAAGGGCCTGCAGAACTGATCCTGAGGTGACACCA
CAGCTCAGCTCCCGAGCACCGCTGTGTCTGACACTGCAGGAGAGGCTGCTGGCCTTCGAGCGGGACCGT
GTGACCATCCCGAGCAGCCAGGTGGCTTTGGCCAAACAGCTGGCTGGCGACATCGCCCTGGAGCTGCAG
GCCTACTTTCGGAGCAAGTTCGCCGAACCTGCCCTTTGGGGCATTCTGCTGCTGGGGGGCCGCTCTACGAC
GGGCTGCAGGCGGGGGCTGCGGACCATGTGCGTCTCCTGGTGCCACTGGTCTGGAGCCGGGCTGTGG
AGCCTGGTGCCGGGCGTGACACTGTGGCGAGGACCCCTCGTCTGGGCCGTGCGCAGGACGCAGCTT
GAGTTCGCCCCCGTGGGAGCAGCCCTGGGACCGCTTCTGGTGGGGGCTACCTCTCTCCCGCGTC
CTGCTGGAGCTACTCCGAAGGCGCTGGCTGCTTCTGTCAACTGGCCGGCCATTGGCAGCCTTCTCGGG
TGCTGATCCGGCCAGCATGGCTCGGAGGAGCTGCTGCTGAGGTGCAGCACGAACGCTGGAGCTC
ACTGTGGCTGTGCTTGTGGCAGTCCCTGGGGTCGATGCTGACGACCGCCTCCTCTTGGCTGGCCCTG
GAGGGGCTGGCGGGAACCTCTGGCTGCAGGACCTGTATCCAGTGAGGCTGCTAGGCTGCGAGCCCTG
GACGACCATGACGCTGGGACTCGCCGGCGGCTGCTGCTGCTGTGTGTCTGCCGTGGTTGTCTG
GCTCTGGGCGAGCTAGGCCGGGGTCACTGACCCAGGTGGTCTGCGTCTGGGGAGGACAACGTGGAT
TGGACGGAGGAGGCTTGGGTGAGCGCTTCTGCAAGCCCTGGAGCTGCTCATCGCAGCCTGGAGCAG
GCCAGCCTGCCCTGCCACTTCAACCCAGCGTGAACCTCTTCAGCAGCTTGCCTGAGGAGGAGATTGAC
GACATTGGCTATCGCTATACAGTGGCCTACAGGAGCCCGAGGGGCTGCT**TAG**
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC



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Restriction Sites:	Sgfl-MluI
ACCN:	NM_139162
Insert Size:	1365 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.
RefSeq:	<u>NM_139162.3</u>
RefSeq Size:	2610 bp
RefSeq ORF:	1365 bp
Locus ID:	125170
UniProt ID:	<u>Q96C03</u>
Cytogenetics:	17p11.2
Protein Families:	Transmembrane
MW:	49.3 kDa
Gene Summary:	This gene encodes an outer mitochondrial membrane protein that functions in the regulation of mitochondrial morphology. It can directly recruit the fission mediator dynamin-related protein 1 (Drp1) to the mitochondrial surface. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jun 2011] Transcript Variant: This variant (1) represents the longest transcript and encodes isoform 1.