

## Product datasheet for TP303568L

### SMCR7L (MIEF1) (NM\_019008) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human Smith-Magenis syndrome chromosome region, candidate 7-like (SMCR7L), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203568 protein sequence Red=Cloning site Green=Tags(s)

MAGAGERKGGKDDNGIGTAIDFVLSNARLVLVGVGGAAMLGIATLAVKRMVDRAISAPTSPTRLSHSGKRS  
WEEPNNWVGSPRLLNRDMKTGLSRSLQTLPTDSSFTDFTFCPPRPKPVARKGQVDLKKSRRLMSLQEKLL  
TYRNRRAIPAGEQARAKQAAVDICAELRSFLRAKLPDMLRDMYLSGSLYDDLQVVTADHIQLIVPLVL  
EQNLWSCIPGEDTIMNVPGFLLVRRENPEYFPRGSSYWDRCVGGYLSPKTVADTFEKVWAGSINWPAIG  
SLLDYVIRPAPPPEALTLEVQYERDKHLFIDFLPSVTLGDTVLVAKPHRLAQYDNLWRSLRPAETARLR  
ALDQADSGCRSLCLKILKAICKSTPALGHLTASQLTNVILHLAQEEADWSPDMLADRFLQALRGLISYLE  
AGVLPALNPKVNLFAELTPEEIDELGYTLYCSLSEPEVLLQT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	51.1 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_061881](#)

Locus ID: 54471

UniProt ID: [Q9NQG6](#), [A0A024R1L3](#)

RefSeq Size: 5730

Cytogenetics: 22q13.1

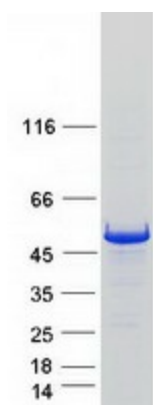
RefSeq ORF: 1389

Synonyms: AltMIEF1; dj1104E15.3; HSU79252; MID51; MIEF1-MP; SMCR7L

**Summary:** 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]

**Protein Families:** Transmembrane

### Product images:



Coomassie blue staining of purified MIEF1 protein (Cat# [TP303568]). The protein was produced from HEK293T cells transfected with MIEF1 cDNA clone (Cat# [RC203568]) using MegaTran 2.0 (Cat# [TT210002]).