

Product datasheet for **RC222091**

ISM2 (NM_182509) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ISM2 (NM_182509) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ISM2
Synonyms:	TAIL1; THSD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222091 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCGTGCCTCCGCGACCGAGCCGGGCTCCTCCTCTGCGTGCTGCTGCTGGCGGCGCTGCTGGAGGCGG
CGCTAGGGCTCCCCGTGAAGAAGCCGGCTCCGCGGACCACGGCCTGGGAGCCTCACGAGGCTCGCAGA
GGTCTCAGCCTCCCAGATCCTAGGCCTCTGAAGGAAGAGGAGGAGGCACCACTGCTCCCAGAACCCAC
CTGCAGGCAGAGCCACCAACATGGATGCTGGACTGTCAGCCAGCAGCCATGACCCAGGCAACA
CCACCCCTCCCAGGACCCAGAGGTTACTCCGTTGCGGCTGGAGCTGCAGAAGCTGCCGGATTGGCCAA
CACAACCTTGAGTACCCCTAACCCCTGATACCCAGGCTTCAGCCTCCCAGATCCTAGGCCTCTGAGGGAA
GAGGAGGAGGCACGACTGCTCCCAGAACCCACCTGCAGGCAGAGCTACACCAACATGGATGTTGGACTG
TCACTGAGCCAGCAGCCCTGACCCAGGGAATGCCACGCCTCCCAGGACCCAGGAGGTTACTCCCTTGCT
GCTGGAGCTGCAGAAGCTGCCAGAATTGGTCCACGCAACCTTGAGTACCCCTAACCCCTGATAACCAGACT
ATGAGCCTCAGAAGGAGTGGAGTCCCTGGTCTCCCTGCAGTGGGAACTGCAGCACTGGCAAGCAGCAGAG
GACTCGGCCCTGTGGCTATGGCTGCACTGCCACCGAGACCCGTACCTGTGACCTGCCCTCCTGTCTGGC
ACTGAGGACAAGGACACCTTGGCCTCCCAGTGAGGAGTGAAGCTCCTGGCCCCAATGCTACGGACA
TGATGATCAAGATGTGGACAGCTGTGAGAAGTGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >RC222091 protein sequence
Red=Cloning site Green=Tags(s)

MRALRDRAGLLLCVLLLAALLEAALGLPVKKPRLRGRPGSLTRLAEVSASPDPRPLKEEEEAPLLPRTH
 LQAEPHQHCWTVTEPAAMTPGNTPPRTPEVTPRLRLQKLPGLANTTLSTPNPDTQASASPDPRPLRE
 EEEARLLPRTHLQAEHQHCWTVTEPAALTPGNATPPRTQEVTPLLLELQKLPVHATLSTPNPDNQT
 MSLRRSGVPGPLAVGTAALASSRGLGPVAMAALPPRPVPTCPPVLALRTRTPWASPVRSGSSWPAMLRT
 CMIKMWTAVRSG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6448_b01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182509

ORF Size: 876 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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: [NM_182509.4](#)

RefSeq Size: 2660 bp

RefSeq ORF: 879 bp

Locus ID: 145501

UniProt ID: [Q6H9L7](#)

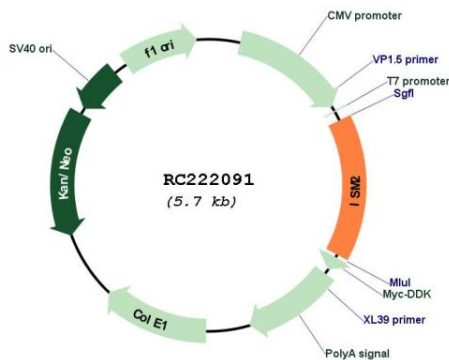
Cytogenetics: 14q24.3

Protein Families: Transmembrane

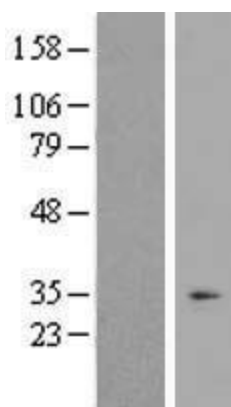
MW: 31.4 kDa

Gene Summary: The protein encoded by this gene contains a type 1 thrombospondin domain, which is present in thrombospondin, a number of proteins involved in the complement pathway, as well as in extracellular matrix proteins. Two alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq, Mar 2009]

Product images:



Circular map for RC222091



Western blot validation of overexpression lysate (Cat# [LY405529]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222091 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).