

Product datasheet for **RN205485**

Mesd (NM_001008345) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mesd (NM_001008345) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mesd
Synonyms:	Mesdc2; MGC94688
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>RN205485 representing NM_001008345 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTCCAGCTGGCTGCGCGGTTCTCCTGTTTCTATGTGCCTCGGACCTTCTGTTGCTCTCTC
CTCCTGAAGCCTACGCGACCGATACTCCCGCGGAGGCCATCACACCTCCACGGAAAAAGAAGGACATCCG
CGATTACAACGATGCCGACATGGCGGACTTCTGGAGCAGTGGGAGAAAGATGATGACATAGAAGAAGGA
GACCTTCCGGAACACAAGAGACCATCGGCACCTATCGACTTTTCAAAGCTAGACCCAGGCAAACCTGAGA
GCATCTTGAAAATGACAAAGAAAGGGAAGACTCTGATGATGTTTGTCAACATCTCAGGGAACCCCACTGA
GAAGGAGACAGAGGAAATCACCAGCCTGTGGCAGGGTAGCCTGTTCAATGCCAACTATGATGTTCAAGG
TTCATCGTGGGATCAGACCGTGCTATTTTCATGCTCCGGGATGGGAGCTATGCCTGGGAGATCAAGGACT
TTTTGGTCAATCAAGACAGGTGTGCTGAAGTCACTCTAGAGGGACAGATGTACCCTGGCAAAGGAGGAGG
AAGCAAGGAGAAAAATAAAACAAAGCCAGAGAAGGGTAAAAAGAAGGAGGGAGATCCCAAGCCACGGCT
TCCAAGGAAGACAACCGAGCTGGGAGCAGAAGAGAAGACCT**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001008345
Insert Size:	675 bp



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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:	<u>NM_001008345.1</u> , <u>NP_001008346.1</u>
RefSeq Size:	2037 bp
RefSeq ORF:	675 bp
Locus ID:	308796
UniProt ID:	<u>Q5U2R7</u>
Cytogenetics:	1q31
Gene Summary:	Chaperone specifically assisting the folding of beta-propeller/EGF modules within the family of low-density lipoprotein receptors (LDLRs). Acts as a modulator of the Wnt pathway through chaperoning the coreceptors of the canonical Wnt pathway, LRP5 and LRP6, to the plasma membrane. Essential for specification of embryonic polarity and mesoderm induction. Plays an essential role in neuromuscular junction (NMJ) formation by promoting cell-surface expression of LRP4. May regulate phagocytosis of apoptotic retinal pigment epithelium (RPE) cells.[UniProtKB/Swiss-Prot Function]