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Product datasheet for RR205485

Mesd (NM_001008345) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mesd (NM_001008345) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mesd
Synonyms:	Mesdc2; MGC94688
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR205485 representing NM_001008345 Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGGCGGCCTCCAGCTGGCTGCGCGCGGTTCTCCTGTTTCTATGTGCCTCGGACCTTCTGTTGCTCTCTC CTCCTGAAGCCTACGCGACCGATACTCCCGGCGAGGCCATCACACCTCCACGGAAAAAGAAGGACATCCG CGATTACAACGATGCCGACATGGCGCGACTTCTGGAGCAGTGGGAGAAAGATGATGACATAGAAGAAGGA GACCTTCCGGAACACAAGAGACCATCGGCACCTATCGACTTTTCAAAGCTAGACCCAGGCAAACCTGAGA GCATCTTGAAAATGACAAAGAAAGGGAAGACTCTGATGATGTTTGTCACCATCTCAGGGAACCCCACTGA GAAGGAGACAGAGGAAATCACCAGCCTGTGGCAGGGTAGCCTGTTCAATGCCAACTATGATGTTCAGAGG TTCATCGTGGGATCAGACCGTGCTATTTTCATGCTCCGGGATGGGAGCTATGCCTGGGAGATCAAGGACT TTTTGGTCAATCAAGACAGGTGTGCTGAAGTCACTCTAGAGGGACAGATGTACCCTGGCAAAGGAGGAGG AAGCAAGGAGAAAAATAAAACAAAGCCAGAGAAGGGTAAAAAGAAGGAGGGAGATCCCAAGCCACGGGCT TCCAAGGAAGACAACCGAGCTGGGAGCAGAAGAGAAGACCTC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

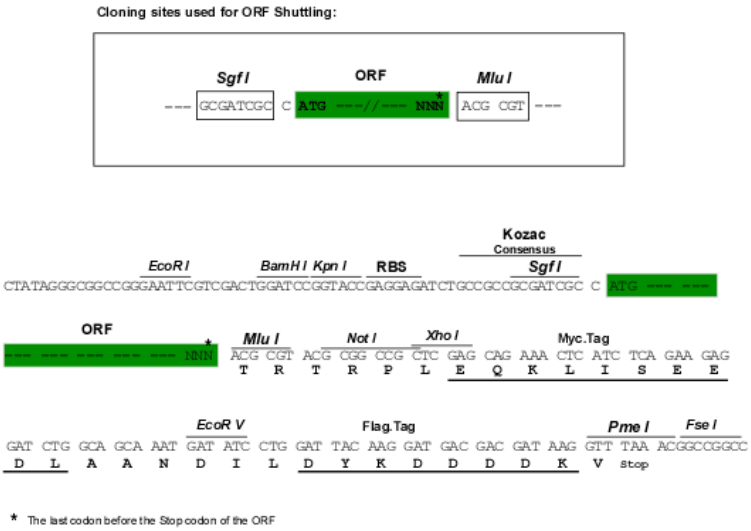
>RR205485 representing NM_001008345
Red=Cloning site Green=Tags(s)

MAASSWLRAVLLFLCASDLLLLSPPEAYATDTPGEAITPPRKKKDIRDYNDADMARLLEQWEKDDDIEEG
DLPEHKRPSAPIDFSKLDPGKPESILKMTKKGKTLMMFVTISGNPTEKETEEITSLWQGSLFNANYDVQR
FIVGSDRAIFMLRDGSYAWEIKDFLVNQDRCAEVTLEGQMYPGKGGGSKEKNKTKPEKGKKKEGDPKPRA
SKEDNRAGSRREDL

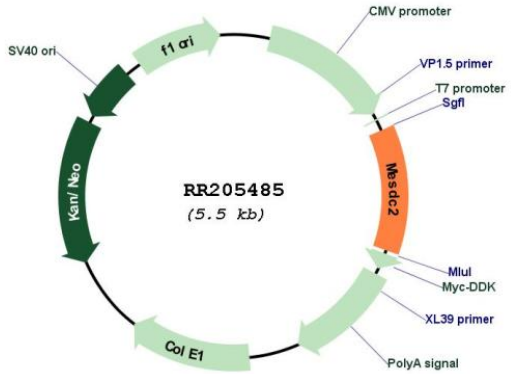
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001008345

ORF Size: 672 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_001008345.1, NP_001008346.1
RefSeq Size:	2037 bp
RefSeq ORF:	675 bp
Locus ID:	308796
UniProt ID:	Q5U2R7
Cytogenetics:	1q31
MW:	25.2 kDa
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]