

Product datasheet for **SC304244**

MESD (NM_015154) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MESD (NM_015154) Human Untagged Clone
Tag:	Tag Free
Symbol:	MESD
Synonyms:	BOCA; MESDC2; OI20
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_015154 edited
 GCGCGGCGCAGCGAAAATGGCGGCTTCCAGGTGGGCGCGCAAGGCCGTGGTCCTGCTTTG
 TGCTCTGACCTGCTGCTGCTGCTACTGCTACCACCGCTGGGTCTGCGCGGCCGA
 AGGCTCGCCCGGACGCCGACGAGTCTACCCACCTCCCGGAAGAAGAAGGATAT
 TCGCGATTACAATGATGCAGACATGGCGCGTCTTCTGGAGCAATGGGAGAAAGATGATGA
 CATTGAAGAAGGAGATCTCCAGAGCACAAAGAGACCTTCAGCACCTGTCGACTTCTCAA
 GATAGACCCAAGCAAGCCTGAAAGCATATTGAAAATGACGAAAAAAGGGAAGACTCTCAT
 GATGTTTTGCTCACTGTATCAGGAAGCCCTACTGAGAAGGAGACAGAGGAAATTACGAGCCT
 CTGGCAGGGCAGCCTTTTCAATGCCAACTATGACGTCCAGAGTTTATTGTGGGATCAGA
 CCGTGCTATCTTCATGCTTCGCGATGGGAGCTACGCTGGGAGATCAAGGACTTTTTGGT
 CGGTCAAGACAGGTGTGCTGATGTAAGTCTGGAGGGCCAGGTGTACCCCGCAAAGGAGG
 AGGAAGCAAAGAGAAAAATAAACAAAGCAAGACAAGGGCAAAAAAAGGAAGGAGA
 TCTGAAATCTCGTCTTCCAAGGAAGAAAATCGAGCTGGGAATAAAGAGAAGACCTGTG
 ATGGGGCAGCAGTGACCGCTGTGGGGGACAGGTGGACGTGGAGAGCTTTTCCCAGC
 TCCTGGGTGGGAGTGGTCTCAGGCAACTGCACACCGGATGACATTCTAGTGTCTTCTAG
 AAAGGGTCTGCCACATGACCAGTTTGTGGTCAAAGAACTACTGCTTAATAGGCTTCAAGT
 AAGAAGACAGATGTTTTCTAATTAATACTGGACTGACAAATTCATGTTTACTATAAAA
 TCTCCTTACATGGAAATGTGACTGTGTTGCTTTTTCCATTTACTTGGTGAGTCATCA
 ACTCTACTGAGATTCCACTCCCCCAAGCACCTGCTGTGATTGGGTGGCCTGCTCTGAT
 CAGATAGCAAATCTGATCAGAGAAGACTTTAAACTCTTGACTTAATTGAGTAACTCT
 TCATGCCATATACATCATTTTATTATGTTAAAGGTAAAATATGCTTTGTGAAGTCAAGT
 GTCTGTAGCCAGGAAGCCAGGTGTGTAATCCAAAATCTATGCAGGAAATGCGGAGAAT
 AGAAAATATGCTACTTGAATCCTAAGTATGTTTTGAATTTCTTTGACTTGAATCTTACTC
 ATCAGTAAGAGAACTCTGGTGTCTGTCAGTTTTATGTGGTCTGTAAAGTTAGGGGTTT
 TGTTTTGTTTCTTATTTAGGAAAGAGTACTGCTGGTGTGAGGGGTTATATGTTCCATT
 TAATGTGACAGTTTTAAAGGATTTAAGTAGGGAATCAGAGTCTTTGCAGAGTGTGACAG
 ACGACTCAATAACCTCATTTGTTTCTAAACATTTTTCTTTGATAAAGTGCCTAAATCTGT
 GCTTTCGTATAGAGTAACATGATGTGCTACTGTTGATGTCTGATTTTCCGTTTATGTTA
 GAGCCTACTGTGAATAAGAGTTAGAACATTTATATACAGATGTCATTTCTAAGAACTAAA
 ATTTCTTTGGGAAAAACCCTCAATTGTGATTTTAATAAATTAAGTAGCACATTAATAAAA
 AAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_015154 unedited
 TTCAGAATTGTATACGATCATATGGGCGGCCGCAATCGGCACGAGGCGCGCGCAGCG
 AAAATGGCGGCTTCCAGGTGGGCGCGCAAGGCCGTGGTCTGCTTTGTGCCTCTGACCTG
 CTGCTGCTGCTACTGCTACCACCGCTGGTCTGCGCGGCCGAAGGCTCGCCCGG
 ACGCCCGACGAGTCTACCCACCTCCCGGAAGAAGAAGGATATTGCGGATTACAAT
 GATGCAGACATGGCGCGTCTTCTGGAGCCATGGGAGAAAGATGATGACATTGCAGAAGGA
 GATCTTCCAGAGCACAAAGAGACCTTCAGCACCTGTCGACTTCTCAAAGATAGACCCAAGC
 AAGCCTGAAAGCATATTGAAAATGACGAAAAGTGGGAAGACTCTCATGATGTTTGTCACT
 GTATCAGGAAGCCCTACTGAGAAGGAGACAGAGGAAATTAAGCCTCTGGCAGGGCAGC
 CTTTTCAATGCCAACTATGACGTCCAGAGTTTATTGTGGGATCAGACCGTGTATCTTC
 ATGCTTCGCGATGGGAGCTACGCTGGGAGAGCAAGGACTTTTTGGTCCGACAAGACAGG
 TGTGCTGATGTAAGTCTGGAGGGCCAGGTGTACCCCGCAAAGGAGGAGGAAGCAAAGAG
 AAAAATACCACAAAGCANGACAAGGGCTAAACACAGCAGGAAGGAGATCTGACATCTCGG
 TCTTCCCAGGAAGAAATCGAGCTGGGAATAAAGAGAGACCTGTGATGGGCGCAGTGACC
 TCTGTGGGGGCACGGTGGACGTGCGAGCTCTATGCCACTCTGNGGGGGAGTGGCTCAGC
 AACTGCCACCGCAGACATCTATGCTTTACACGGGTCTGCCAGACCGTTTGTGTCAAGA
 TACTGGTAAAGGCTTTCAGTAGAGACAGAGTTTCTATT

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_015154 unedited ATGGGATGGCAACTTCCATTTCCAGGNANAGCACTGGGGCAGGGTCACAGGGATGCCACC CGGGATCTGTTACAGAAACAGCTATGACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTAAATGGGCTACTTTTAATTTATTTAAATCACAATTG AGGGTTTTTCCCAAAGAATTTAGTTCTTAAAAATGACATCTGTATATAAATGTTCTAAC TCTTATTCACAGTAGGCTCTAACATGAACGGCAAATCAGACATCAACAGTAGCACATCA TGTTACTCTATACGAAAGCACAGATTTAGGCACCTTTATCAAAGAAAAATGTTTAGAAACA AATGAGGTTATTGAGTCGTCTGTACACTCTGCAAAGGACTCTGATTCCCTACTTAAATC CTTTAAAACGTGACATTAATGGAACATATAACCCCTCGACACCAGCAGTACTCTTTCC TAAATAAGGAAACAAAACAGAACCCTAACTTTACAGACCACATAAAAACCTGACAGACAC CAAGAGTTCTCTACTGATGAGTAAGATTCAAGTCAAAGAAATCAAACACTTAGGAT TTCAAAGTACATATTTCTATTCTCCGATTTCTGCATAGATTTGGATTTACACACC TGGCTTCTGGCTACAGACATCTGAGTTCACAAAGCATATTTAACTTTACATAATGAA AATGAGGTTTATGGCATGAAAAGTTTACTCAATTTAATCACAGAGTTAAAGCCTTTTCT GATTAATTTGTGTTTCTATCAGAACAGGGCCCCCATTACGCAGGTGCTTGGAGGGGG ATGGGATCCTCATTGAATTGATGACTCACCAATGTAATGTGAAAAACACCCCGCTCCC TTTTTCTGTGTGGGGATTTTTATGTAACCTGGATTTGTCGGTGCCCTTTAT
Restriction Sites:	NotI-NotI
ACCN:	NM_015154
Insert Size:	1800 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_015154.1</u> , <u>NP_055969.1</u>
RefSeq Size:	4243 bp
RefSeq ORF:	705 bp
Locus ID:	23184
UniProt ID:	<u>Q14696</u>
Cytogenetics:	15q25.1

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 (By similarity). May regulate phagocytosis of apoptotic retinal pigment epithelium (RPE) cells (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes the protein.