

Product datasheet for **SC127894**

MUSK (NM_005592) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUSK (NM_005592) Human Untagged Clone
Tag:	Tag Free
Symbol:	MUSK
Synonyms:	CMS9; FADS; FADS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

>OriGene ORF sequence for NM_005592 edited
 ATCTGGTACCGAGCTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTA
 TCATGAGAGAGCTCGTCAACATTCCTACTGTTGCTTCAGCG
 GAACTGAGAACTTCCAAAAGCTCTGTATCACCCTCTTGAACAGTGGATGCCT
 TAGTTGAAGAAGTGGCTACTTTCATGTGTGAGTGAATCCTACCCAGCCTGAGATTT
 CCTGGACTAGAAAATAAATCTCATTAACTCTTGGACCCGGTACAGCATCCGGGAGA
 ATGGGCAGCTCCTCACCCTGAGTGTGGAAGACAGTATGATGGCATTACTGCTGCA
 CGGCCAACATGGTGTGGGAGGAGCTGTGGAGAGTTGTGGAGCCCTGCAAGTGAAGATGA
 AACCTAAAATAACTCGTCTCCATAAATGTGAAAATAATAGAGGGATTAAAAGCAGTCC
 TACCATGTACTACAATGGGTAATCCCAAACCATCAGTGTCTTGGATAAAGGGAGACAGCC
 CTCTCAGGAAAAATCCCGAATTGCAGTTCTTGAATCTGGGAGCTTGGAGATTCATAACG
 TACAAAAGGAAGATGCAGGACAGTATCGATGTGTGGCAAAAACAGCCTCGGGACAGCAT
 ATTCCAAAGTGGTGAAGCTGGAAGTTGAGGTTTTTCCAGGATCTGCGGGCTCCTGAAT
 CCCACAATGTCACCTTTGGCTCCTTTGTGACCCTGCAGTGTACAGCAACAGGCATTCTG
 TCCCCACCATCACCTGGATTGAAAACGGAAATGCTGTTTTCTTGGGTCCATTCAAGAGA
 GTGTGAAAGACCGAGTGATTGACTCAAGACTGCAGCTGTTATACCAAGCCAGGACTCT
 ACACATGCATAGCTACCAATAAGCATGGGGAGAAGTTCAGTACTGCCAAGGCTGCAGCCA
 CCATCAGCATAGCAGAATGGAGTAAACCACAGAAAAGATAACAAAGGCTACTGCGCCAGT
 ACAGAGGGGAGGTGTGTAATGCAGTCTGGCAAAAAGATGCTCTTGTTTTTCTCAACACCT
 CCTATGCGGACCTGAGGAGGCCAAGAGCTACTGGTCCACAGCCCTGGAATGAACTGA
 AAGTAGTGAGCCAGTCTGCCGGCCAGCTGCTGAGGCTTGTGTGTAACCACATCTTCC
 AGGAGTGCAGTCTGGAGTAGTGCCTACTCCTATTTCCATTTGCAGAGAGTACTGCTTGG
 CAGTAAAGGAGCTCTTCTGCGCAAAAAGAAATGGTGGTAATGGAAGAGAAGACCCACAGAG
 GACTCTACAGATCCGAGATGCATTTGCTGTCCGTGCCAGAATGCAGCAAGCTTCCAGCA
 TGATTGGGACCCACCGCTGTGCCAGACTGCCACATCTAGATTATAACAAAGAAAACC
 TAAAAACATTCCCAACATGACGTCTCAAAGCCAAGTGTGGACATTCCAAATCTGCCTT
 CCTCCTCTTCTTCTCTCTGTCTCACCTACATACTCCATGACTGTAATAATCTCCA
 TCATGTCCAGCTTTGCAATATTTGTGCTTCTTACCATACTACTCTTATTGCTGCCGAA
 GAAGAAAACAATGAAAAATAAGAAAAGAGAATCAGCAGCAGTAAACCTCACCACACTGC
 CTTCTGAGCTCTTACTAGATAGACTTCATCCCAACCCATGTACCAGAGGATGCCGCTCC
 TTCTGAACCCCAATTGCTCAGCTGGAGTATCCAAGGAATAACATTGAATATGTGAGAG
 ACATCGGAGAGGGAGCGTTTGAAGGGTGTTCAGCAAGGGCACCAGGCTTACTTCCCT
 ATGAACCTTTCACTATGGTGGCAGTAAAGATGCTCAAAGAAGAAGCCTCGGCAGATATGC
 AAGCGGACTTTCAGAGGGAGGCAGCCCTCATGGCAGAATTTGACAACCTAACATTGTGA
 AGCTATTAGGAGTGTGTGCTGTCCGGGAAGCCAATGTGCCTGCTCTTTGAATACATGGCCT
 ATGGTGACCTCAATGAGTTCTCCCGCAGCATGTCCCTCACACCGTGTGCAGCCTCAGTC
 ACAGTGACTTGTCTATGAGGGCTCAGGTCTCAGCCCTGGGCCCCACCCCTCCTCTGTG
 CTGAGCAGCTTTGCATTGCCAGGCAGGTGGCAGCTGGCATGGCTTACCTCTCAGAACGTA
 AGTTTGTACCAGGAGATTTAGCCACCAGGAAGTGCCTGGTGGGCGAGAACATGGTGGTGA
 AAATTGCCGACTTTGGCCTCTCCAGGAACATCTACTCAGCAGACTACTACAAAGCTAATG
 AAAACGACGCTATCCCTATCCGTTGGATGCCACCAGAGTCCATTTTTATAACCGCTACA
 CTACAGAGTCTGATGTGTGGCCTATGGCGTGGTCTCTGGGAGATCTTCTCCTATGGCC
 TGCAGCCCTACTATGGGATGGCCCATGAGGAGGTCATTTACTACGTGCGAGATGGCAACA
 TCCTCTCCTGCCCTGAGAACTGCCCCGTGGAGCTGTACAATCTCATGCGTCTATGTTGGA
 GCAAGCTGCCTGCAGACAGACCCAGTTTACCAGTATTACCGAATTCTGGAACGCATGT
 GTGAGAGGGCAGAGGAACTGTGAGTGTCTAAGGTGAAGGGCGAATTCTGCAGATATCCA
 TCACACTGGCGGCGCGGTATAGCTGTTTCTGAACAGATCCCGGTGGCATCCCTGTG
 ACCCTCCCCAGTGCCTCTCCTGCCCTGGAAGTTGCCACTCCAGTGCCACCAGCCTTG
 TCCATAAAAATTAAGTTGCATCATTTTGTCTGACTAGGTGTCCTTCTATAATATTATGG
 GGTGGAGGGGGTGGTATGGAGCAAGGGGCAAGTTGGGAAGACAACCTGTAGGGCCTGCG
 GGGTCTATTGGGAACCAAGCTGGAGTGCAGTGGCAACAATCTTGGCTCACTGCAATCT

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005592 unedited GTTCAAATTTTGTAAACGAACATATAGGGCGGCCGNAATCAGATCTGGTACCGAG CTCGGATCCACTAGTAACGGCCGCCAGTGTGCTGGAATTCGCCCTTATCATGAGAGAGCT CGTCAACATTCCTACTGTTACTTCTTACTCTGGTTGCCTTCAGCGGAAGTGGAACT TCCAAAAGCTCCTGTATCACCCTCTTGAACAGTGGATGCCTTAGTTGAAGAAGT GGCTACTTTTATGTGTGAGTGGAAATCTACCCCGAGCTGAGATTTCTGGACTAGAAA TAAAATTCATTAAACTCTTTGACACCCGGTACAGCATCCGGGAGAATGGGCAGCTCCT CACCATCCTGAGTGTGAAGACAGTGTGATGGCATTACTGCTGCACGGCCAACAATGG TGTGGGAGGAGCTGTGGAGAGTTGTGGAGCCCTGCAAGTGAAGATGAAACCTAANATAAC TCGTCTCCCATANATGTGANAATAATAGAGGGATTAAGAGCAGTCTACCATGTACTAC AATGGGTAAATCCCAAACCATCAGTGTCTTGGATAAAGGGAGACAGCCCTCAGGGAAAA TTCCCGAATTGCAGTCTTGAATCTGGGAGCTTGGAGTTCATAACGTACANNAGGAGAT GCAGGACAGTATCGATGTGTGGCAAAAACAGCCTCGGGACAGCATAATCCAAAGTGGTGA AGCTGGAAGTTGAAGTTTTTCCCAAGGATCCTGCGGGCTTCCGGATCCCAAAAGGTACC TTTGCCTCCTTTGGGACCCTGGCATGGACAGCACAGGGCATTCCGGTCCCACAACACCT GGAATTGAAAAGGAAAAGCGGGTACTTCTGGGCCCTTTCCAAAGATGGGAAAAACGAGG GATGACCAAAAATGGCCCTGTTACCCAAACCCCGGAACATAAATAGGTAAT
Restriction Sites:	Please inquire
ACCN:	NM_005592
Insert Size:	2600 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.
	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
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:	NM_005592.1 , NP_005583.1
RefSeq Size:	2754 bp

RefSeq ORF:	2610 bp
Locus ID:	4593
UniProt ID:	O15146
Cytogenetics:	9q31.3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Gene Summary:	<p>This gene encodes a muscle-specific tyrosine kinase receptor. The encoded protein may play a role in clustering of the acetylcholine receptor in the postsynaptic neuromuscular junction. Mutations in this gene have been associated with congenital myasthenic syndrome. Alternatively spliced transcript variants have been described.[provided by RefSeq, Oct 2009]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.</p>