

Product datasheet for **SC329135**

MUSK (NM_001166280) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUSK (NM_001166280) 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: >NCBI ORF sequence for NM_001166280, the custom clone sequence may differ by one or more nucleotides

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ATGAGAGAGCTCGTCAACATTCCACTGGTACATATTCTTACTCTGGTTGCCTTCAGCGGA
ACTGAGAACTTCCAAAAGCTCCTGTATCACCCTCCTTTGAAACAGTGGATGCCTTA
GTTGAAGAAGTGGCTACTTTTCATGTGTGCAGTGGAAATCTACCCCAGCCTGAGATTTCC
TGGACTAGAAAATAAAATCTCATTAAACTCTTTGACACCCGGTACAGCATCCGGGAGAAT
GGGCAGCTCCTCACCATCCTGAGTGTGGAAGACAGTGTATGGCATTACTGCTGCACG
GCCAACAAATGGTGTGGGAGGAGCTGTGGAGAGTTGTGGAGCCCTGCAAGTGAAGATGAAA
CCTAAAATAACTCGTCTCCCATAAATGTGAAAATAATAGAGGGATTAAGAGCAGTCCTA
CCATGTACTACAATGGGTAATCCCAAACCATCAGTGTCTTGGATAAAGGGAGACAGCCCT
CTCAGGGAAAATCCCGAATTGCAGTTCTTGAATCTGGGAGCTTGAGGATTCATAACGTA
CAAAAGGAAGATGCAGGACAGTATCGATGTGTGGCAAAAACAGCCTCGGGACAGCATAT
TCCAAAGTGGTGAAGCTGGAAGTTGAGGAAGAAAGTGAACCCGAACAAGATACTAAAGTT
TTTGCCAGGATCCTGCGGCTCCTGAATCCCACAATGTCACCTTTGGCTCCTTTGTGACC
CTGCAGTGTACAGCAACAGGCATTCTGTCCCCACCATCACCTGGATTGAAAACGGAAT
GCTGTTTCTTCTGGGTCCATTCAAGAGAGTGTGAAAGACCGAGTGATTGACTCAAGACTG
CAGCTGTTTATACCAAGCCAGGACTCTACACATGCATAGCTACCAATAAGCATGGGGAG
AAGTTCAGTACTGCCAAGGCTGCAGCCACCATCAGCATAGCAGAAATGGAGAGAGTACTGC
TTGGCAGTAAAGGAGCTCTTCTGCGCAAAAAGAAATGGCTGGTAATGGAAGAGAAGCCAC
AGAGGACTCTACAGATCCGAGATGCATTTGCTGTCCGTGCCAGAAATGCAGCAAGCTTCCC
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TCTGTCTCACCTACATACTCCATGACTGTAATAATCTCCATCATGTCCAGCTTTGCAATA
TTTGTGTTCTTACCATAACTACTCTCTATTGCTGCCGAAGAAGAAAACAATGGAATAAT
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AGACTTCAATCCCAACCCCATGTACCAGAGGATGCCGCTCCTTCTGAACCCCAAATGCTC
AGCCTGGAGTATCCAAGGAATAACATTGAATATGTGAGAGACATCGGAGAGGGAGCGTTT
GGAAGGGTGTTCAGCAAGGGCACCAGGCTTACTTCCATGAACCTTTCACTATGGTG
GCAGTAAAGATGCTCAAAGAAGAAGCCTCGGCAGATATGCAAGCGGACTTTCAGAGGGAG
GCAGCCCTCATGGCAGAAATTTGACAACCCTAACATTGTGAAGCTATTAGGAGTGTGTGCT
GTCCGGAAGCCAATGTGCCTGCTCTTTGAATACATGGCCTATGGTGACCTCAATGAGTTC
CTCCGCAGCATGTCCCCTCACACCGTGTGACGCTCAGTACAGTGAAGTGTCTATGAGG
GCTCAGGTCTCCAGCCCTGGGCCCCACCCCTCTCCTGTGCTGAGCAGCTTTGCATTGCC
AGGCAGGTGGCAGCTGGCATGGCTTACCTCTCAGAACGTAAGTTTGTTCACCGAGATTTA
GCCACCAGGAAGTGCCTGGTGGGCGAGAACATGGTGGTGAATAATGCCGACTTTGGCCTC
TCCAGGAACATCTACTCAGCAGACTACTACAAAGCTAATGAAAACGACGCTATCCCTATC
CGTTGGATGCCACCAGAGTCCATTTTTATAACCGCTACACTACAGAGTCTGATGTGTGG
GCCTATGGCGTGGTCTCTGAGAGATCTTCTCCTATGGCCTGCAGCCCTACTATGGGATG
GCCCATGAGGAGTCAATTTACTACGTGCGAGATGGCAACATCCTCTCCTGCCCTGAGAAC
TGCCCCGTGGAGCTGTACAATCTCATGCGTCTATGTTGGAGCAAGCTGCCTGCAGACAGA
CCCAGTTTACCAGTATTACCGAATTCTGGAACGCATGTGTGAGAGGGCAGAGGGAAGT
GTGAGTGTCTAA
    
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Restriction Sites: Please inquire

ACCN: NM_001166280

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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001166280.1 , NP_001159752.1
RefSeq Size:	2496 bp
RefSeq ORF:	2352 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 (2) contains an alternate in-frame exon and lacks an alternate in-frame exon in the middle portion of the coding region compared to variant 1. The encoded isoform (2) is shorter than 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>