

Product datasheet for **RG212253**

MUSK (NM_005592) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MUSK (NM_005592) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MUSK
Synonyms:	CMS9; FADS; FADS1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG212253 representing NM_005592
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGAGAGCTCGTCAACATTCCACTGGTACATATTCTTACTCTGGTTGCCTTCAGCGGAACTGAGAAAC
 TTCAAAAAGCTCCTGTCATCACCCTCCTTTGAAACAGTGGATGCCTTAGTTGAAGAAGTGCTACTTT
 CATGTGTGCAGTGAATCCTACCCCGAGCTGAGATTTCTGGACTAGAAATAAAATTCTCATTAAACTC
 TTTGACACCCGGTACAGCATCCGGGAGAATGGGCAGCTCCTCACCATCCTGAGTGTGAAGACAGTGATG
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 GAAGATGAAACCTAAAATAACTCGTCTCCATAAATGTGAAAATAATAGAGGGATTAAGAGCAGTCCTA
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 AAGCTGCCTGCAGACAGACCCAGTTTACCAGTATTCACCGAATCTGGAACGCATGTGTGAGAGGGCAG
 AGGGAAGTGTGAGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG212253 representing NM_005592
 Red=Cloning site Green=Tags(s)

MRELVNIPLVHILTLVAFSGTEKLPKAPVITTPLETVDALVEEVATFMCIVESYPQPEISWTRNKILIKL
 FDTRYSIRENGQLLTILSVEDSDGIYCCTANNGVGGAVESGALQVKMKPKITRPPINVKIEGLKAVL
 PCTTMGNPKPSVSWIKGDSPLRENSRIAVLESGSLRIHNQKEDAGQYRCVAKNSLGTAYSKVVKLEVEV
 FARILRAPESHNVTFGSFVTLHCTATGIPVPTITWIENGNVSSGSIQESVKDRVIDSRLQLFITKPGLY
 TCIATNKHGEKFSATAAATISIAEWSKPQKDNKGCAQYRGEVCNAVLAKDALVFLNTSYADPEEAQEL
 LVHTAWNELKVVSPVCRPAAEALLCNHIFQECSGVPVPTPIPICREYCLAVKELFCAKEWLVMEEKTHRG
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 TYSMTVIIISIMSSFAIFVLLTITTLYCCRRKQWKNKRESAAVLTTLPESELLDRLHPNPMYQRMPLL
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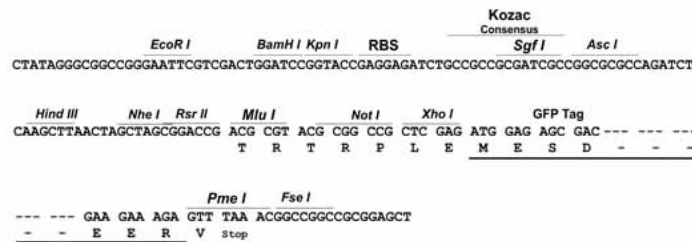
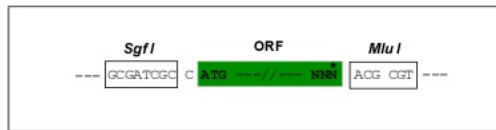
TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja2649_a04.zip

Restriction Sites: SgfI-MluI

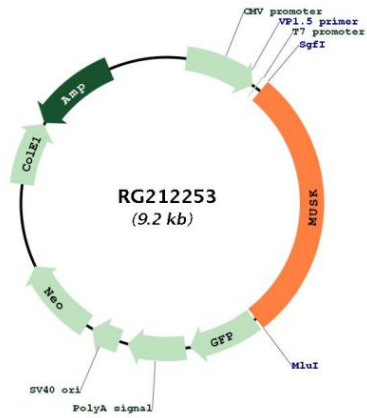
Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN:	NM_005592
ORF Size:	2607 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_005592.4
RefSeq Size:	2666 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>

Product images:



Circular map for RG212253