

Product datasheet for MG222414

Mroh2a (NM_001177364) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mroh2a (NM_001177364) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mroh2a
Synonyms:	ENSMUSG00000044873; Heatr7b1; OTTMUSG00000020804
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222414 representing NM_001177364 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAAAGAAGCCACTGAGTTGAATGAAGACATGTTGGAGGAAGCAGAGCATCTGGCACTTCTAGAGCCAG
 AGGATGATGGTACATTCTTCCAAGTCACCAACCTCCTGAACATCATGGACAGTGAATCAGCAAAGACAGA
 CACCACAGGGCCAGGCCCTGGACATGCGGAAGACCTTGGCTTCAGTGATAATCAGAGAAAGGCTACCACG
 GATCCCTGTGTAGTGATGAACGCGCTCATCCGCTGCCTGCAGATGCCAGAGATTTCTACCAACGCAAAA
 TGAACATCTACAACATCATGCAGGAGATCATCCAGCAGGAAGGGGAGATGGAGGAGCACTGTATACAAAG
 GCTGGTGGCCATTGCCTCCAAGCAGATGCGGGATATCACAGAGGCGGAGGATTTTGAGACCGCCGAGGTG
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AGGGATTGGGAAGAGAAGATGGTTCACAAAGTAACCATGGATACTGTAAAGATCATAACTCTTCTATCA
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 TTGTGGGACTTCGCAATTCTCTCCAGGACCTGCAGCTAGACTCAGACGCTGGGGTCAAGAGGGCAGCCCT
 GGAGACCTCAAAGTCTGGACAGCTGCAATCAGCACTGGCTCTTAGCGTCACCCAGAGGACTGCCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG222414 representing NM_001177364

Red=Cloning site Green=Tags(s)

MKEATELNEDMLEEAHLALLEPEDDGTFFQVTNLLNIMDESASAKTDTTGPGLDMRKTLASVIITEKATT
DPCVVMNALIRCLQMPEISTQRKMNIYNIMQEIIQQEGEMEEHCQRQLVAIASKQMRDITEAEDFETAEV
ASETLVALSRNHFSVMYELQHHLKPLNLTDEFVIVTLAKLANGNVFEFMPYMGITLATIFTMLRLANE
KMRQVICSAMETFCETVQFYLRHLEDSPVMTEDQFAVKLFPMYRYFVTWLRHQDLEVKLGVIKSLRP
MLSLLLPNDDLREQVYDIPLLLAEFQGTGHWPLFPSLLQVLRQILEASVTTNTPIPPMLLHPIFTELHV
QVCSKAPAQQQFSSQNLMEIVHCFIALARSYPKELMKFFFQVEMSKEAVRVGTALIRAVVSADDPKIN
IKTIYLAIRVVKNLSDTRSKVRMAILRIIGQLVLSGFQEKIKGWGLKYVSQVLTSTYKLTNRRECFYQ
RDLEEKMVHKVMTDVKIITSSISGMTNEFWRLCYIMETDYTEALTPICISLTNLAENQIHGKDTEAG
IAGSKHVLDLPAPQKLLARLLVLMSSPYKGEGRGIAMNLLRTLSSQSIAPSMADMWEQEIPLLVQYLEEH
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DMDMKNISSASSRVAKVVCPEFNCDEVSLIQKLCENIGAMDQLHDRAAVTWIGIFLQMRVKELEDKVAE
ILGAILVHLPVVDHPEVRRHLIEGILLAHYHQTETVLTSLLRQPLPMESHLTEVWLAVAENVPFARTMLH
GLLGRLQSRFTAKINATSKADIWRLAAVDPLMTLCTIQLLMEKMDQDDKFPDLFPDLLYTFLLQLGSSHG
PEAASPVLKTRWLVHTGPLPQEMTLQRCRSRITIKSMQLLVKRINREPLEQALEEQSVWSLLENGGTF
EGVSLMARLCMQNMENYQRLAELVLTGMGSEILSCCISSTAICVEFMSPVLHQEKLLRPVVMLEKGA
GQDKDETQLVLSLRALGNMAGAPRKVKQYRKLLEKCLGSLQGQVSSSAMAEGMEALTKVLAELREGDI
GSSFEAISKQCRAFFDNESELLRLKAFVLFGKLTKVVGISKKHFFKGEVKRGWVSLLLHCQDPCPSVAQA
CVATMFQCVHFWGWSLESSFGHSNDSINEQMTVFQTNMCSVLAQKKPAVLCGFLLETTVFMKNNLSRIR
IAACNLAGIIMKQLSAHYLKKMDLVGLRNSLQDLQLDSDAGVRRAALETCLKVLDSCNQHWLLASPRGLP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



CTATAGGCGGCCGGAATTCGCTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCCGCCGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

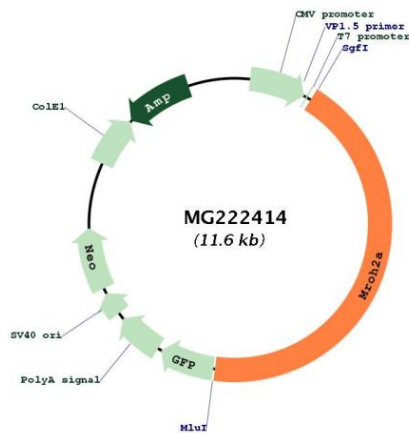
- - E E R V Stop

ACCN:

NM_001177364

ORF Size:	5037 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_001177364.1 , NP_001170835.1
RefSeq Size:	7526 bp
RefSeq ORF:	5040 bp
Locus ID:	100040766
Cytogenetics:	1

Product images:



Circular map for MG222414