

Product datasheet for **MG215101**

Mroh1 (NM_001162489) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mroh1 (NM_001162489) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mroh1
Synonyms:	D330001F17Rik; Heatr7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215101 representing NM_001162489 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACCAGGCCCTACATAAAGAGGCTGTCTTCACCCCTCCTGGACTCCATCACTGACAAGGATCCTATGG
TCCAGGAGCAGGTCTGCAGTCACTCTGTTCCCTTGGAGACGCGCAGCCAGACGAGACACTCCATGCCTG
TGAGGAGTACCTACGGCAGCATGACAAGCTGGCTCACCCGTACCGTACGAAGATCCTGAGGGCCATGGAG
ACAGTACTAAGCAGTCATATCCATGACCTGGACAAGGACTGCCGGCGTGTCTCCTCTGGCTACCA
GCGAGATGACAAGGACCAAGGAGCTGGACTGTGACTGGCAGCAGGCTGCAGGCAGTGTCTGGTGGCTGT
TGGCAAGCGATTACCAACCAGGTGATGGAGGAGGTGCTCAGCCGTTCCAGCCTGGGATGCTGCCCCAC
TCTCCGTGCTGCACACACTCGCCAACCTCTCAGTGTCCAACGCATTTGATATGGTTCCTTTCTGCCGT
CCATCCTGAGCACCATGCTGCCTATGCTGAGCATGGCCAAGCAGGACGCGCTGAAGGTGGTGTCTGCGG
CGCTCTCCAGCACTTCAGCGAAAGCATCTTGAATACCTGGCCAACCTGGACCAGGCCCCAGACCCACA
GTGAGGAAGGACACCTTTGGGGCTGACATCTTTGGCGCTATGATGTTCTTCCACCACTGGCTGCAGA
GCCGAGATGCCAAGCTCCGGCTTGCCGTGGTGGCGCTCTGGTCCCATGAGCCACTGCTTCCCAGTGA
GAGGCTGGAAGAAGCAGCTCCCTAAGCTCCTCCCTGCAGTCTCGGCTCTACAAGAAGCATGCGGAGGCC
TTTCAGATATCGAAGAGCCTGGCCAGATTCTCGAGGCAGCTGTGAACGTGAGCAGCCGTACCTGGAGG
TTCAGCTTGATGCCCTCCTGGTGGCTCTTCATGCTCAGATTTGTGTGCCTGTGGAGTCTCGAGCCCTC
GGTGTGAACAGCCAGAAGGAGGTGCTTCGCTGCTTACAGTGTGCGCTGCTGCTCTCCTGACCGTCTG
CTGGCCTTCTTACTGCCAGGCTGGACACCAGCAACGAGAGGCTCCGCGTGGGTACCCTGCAGATCCTGA
GACACATCACTCGGCTGCCGCTCAGATGGAGGCTAAGCAGCCCTTATCCTCTCCTCCATGAGGCT
GCCTCTTCTGGACACCAACGATAAAGGTGAAACGGGCTGTGGTGCAGGTGATCAGTGCCATGGCCACCAC
GGCTACTTGGAGCAGCCTGGAGGAGAGGTGATGGTTGAGTATATTGTGCAGCAGTGCGCCCTGCCGCCG
AGGAGCCTGAGAAGCCTGGCCCTGATGGGAGGACCTGGCGCAGATAGCGTGCAGGCTGTCAGTATCCG
CACCTCTACCTGGTCAGCACCACAGTGGATAGGATGAACAGTGTCTCTGGCCCTACCTCTCGAGTTC



[View online >](#)

```

CTCACCCCGGTGCGCTTCACTGCGGCCCTCACCCGCTCTGCAGGAGCCTTGTGCACTTAGCCCTGAAGA
GGCAGGAGGCTGGGGCAGATGATTTCTCATCCAGTACAACGCGAATGCAAACCTCCCGTCTCCCTTCGC
TATGACCACACGACTGCTGGTTGTGCTTCTAATCCCTACCTGGGAGATGGGCGTGGAGCGGCCTCCCTG
CGCCTCTGAAGTTATGCATCAGAATATCCACCTTTCTGGGCCAGCGGTGGGAGACAACCATGCCCA
TGCTGTGGAGTACCTGGATGAGCACACCGAGGAAAGCCTGTACTGAAGGAGTGGGAAGAAAAGCTTCT
AATGTTCTCGGAGACACCTGGCCGTAGTATCTGACAACATCTGGATCTGCCAGCTGAGCCAAGAGATG
TGCAAGCAACTGCCCTTTACAGTGGGACTCTCAGGAGAAGAAGCTTCTGTATAAGTGCATTGGAACCA
CGCTGGGTGCTGCTTCAAGTAAGGAGGTGGTGAAGAAACACCTCCGAGAGCTGCTGGAGACAGCCAGATA
TAAGAGGAGGCAGAGCAGGAGGCTGGCCTGTTGCTTTGGGATCTGTGCCATTACCCACCTTGAGGAC
ACTCTAGCACAGCTGGAGGACTTTGTGAGGTGAGACGTGTTAGGAAGTCCACCGGCATCTTTAGCATT
TTAAGGATCGAAGCGAGCACGAAGTGGAAAGAATGAAGAGCTGTCTGATCCTGTGCTACGGGCACGTGGC
TGCCAGGCCCTCGGGAGCTGGTGTGGCCAGGGTAGAGTCTGATATCCTGCGCAGCATGTTCCAGTGC
TTCAACACCAAGGACCCGCCCTGAAGCTCTGCCTCGTCCAGAGCCTGTGCATGGTCAGCCAGGCCATGT
GCAGCAGCGCACAAAGCCAGCTCCTTCCACTTCTTGAGGAAAACAGAGCTGGTGACACAGATGATGGAATT
CATCAGGGCAGAACCCAGACTGCCTGAGAACACCCATTGGAAGAAAGCCATGTTGGCCTGCACATAC
CTGGTCAACTTGAGAGCCGCGCTGGAGGAGCAGACACAGGCAGATGTGGTCCACAGCTGCCTACACAGT
TCATGGCCCTGCCACCTGAGGCTGAGGGGGGAGATGGCGTTGGCCGGGAGCCTCTGTATCTGGACACGGT
GTGTGCCCTTGAAGACTTGTAAACAAGACTGCTGCGGCAGAACATGACCCCCAAGGCCTGCAGATCATG
GTAGAGCACCTGAGCCCGTGGATCAAGTCCCGAGGGGTGATGAGCGGGCAGGACACTTGGCTTGGGCG
CCTGCCTGCTGGAGTTCTTCCAGGAGCACTTGTGTGTCAGCACATTGGTACCCTTCCACAACCTGGGTCT
CCTGGTCGGTCTCTTGTCCACGGTGTGCGGACACATGGACTACCACCCGCCAGAAAGCCGTGGGCTGT
GTCTATCCCTGCTCTACTTGCAGCTGGGCTATGAGGGCTTCTCCCGAGACCATCGTGATGATGTGGCCG
AGCGGCTCCTCACCTGCAGGATGGCCTTGTGAACGCTGATCCCACCATCCTTTCCACAACCTGCCACAG
CATAGCCAGGTATCGCAAGCGCCTCCCTCAGACCAGCTCATCAGTCTCTTGTCTCACGGTGTGAGAG
AGCCTGGGAGACCAGACAAGAAGTCTCGCGCGCAGCCACAGTCATGATCAACTGCCTGCTGAAGGAGC
GGGCAATGTGCTGCTGGAAAAGTCCCAGGAGATTGCCAGCCATGGGACTTGAGGCTCTTA
    
```

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215101 representing NM_001162489

Red=Cloning site Green=Tags(s)

```

MTRPYIKRLSFTLLDSITDKDPMVQEQVCSALCSLGDAPDETLHACEEYLRQHDKLAHPYRTRKILRAME
TVLSSHIDLDKDTAGAVILLATSEMTRTKELDCDWQQAAGSVL VAVGKRFTNQVMEEVLSRFQPGMLPH
SSVLHTLANLSVSNAFDMVPFLPSILSTMLPMLSMKQDALKVVF CGALQHFSEILEYLANLDQAPDPT
VRKDTFGADIFGAYDVL FHHWLQSRDAKLR LAVAALGPM SHLLP SERLEEQLPKLLPAVLGLYKHAEA
FQISKSLGQILEAAVNVSSRTLEVQLDALLVALHAQICVPVSSSPLVMNSQKEVLRCTVLACCS PDRL
LAFLLPRLDTSNERLRVGT LQILRHIINSAAAQMEAKQPFILSSMRLPLLDTNDKVKRAVVQVISAMAHH
GYLEQPGGEVMVEYIVQCALPAEEPEKPGPDGEDLAADSVRAVSIRTL YLVSTTVDRMNSVLPYLLLEF
LTPVRF TAAL TPLCRSLVHLALKRQEAGADDFLIQYNANANL P SPFAMTRLLV VSSNPYLGDRGAASL
RLLKVMHQNIHPFLGQRWETMPMLLEYLDEHTEESLSLKEWEEKLLMFLRDTLAVVSDNIWICQLSQEM
CKQLPSYSGTPQEKNFLYKCI GTTLGAASSKEVVRKHLRELLETARYQEEAEQEGLACCFGICAI THLED
TLAQLEDFVRSDFRKSTGIFSI FKDRSEHEVERMK SCLILCYGHVAAQAPRELVLARVESDILRSMFQC
FNTKDPALKLCLVQSLCMVSQAMCSSAQASSFHFLRKTELVTQMMEFIRAEPDCLRTPIRKKAMLACTY
LVNLEPALEEQTQADVH SCLHSVMALPPEAEGDGVGREPLYLDTVCALEDLLTRLLRQNMT PQGLQIM
VEHLSPWIKSPRGHERARALGLGACLLEFFQEHLVSTLV PFHNLGLLVGLFAPRCADTWTTRQKAVGC
VYSLLYLQLGYEGFSRDHRDDVAERLLTLQDGLVNADPTILFHTCHSIAQVIAKRLPSDQLISLLLTVFE
SLGDPDKNCSRAATVMINCLLKERGNVLLKVP GDCQPWDLRLL
    
```

TRTRPLE – GFP Tag – V

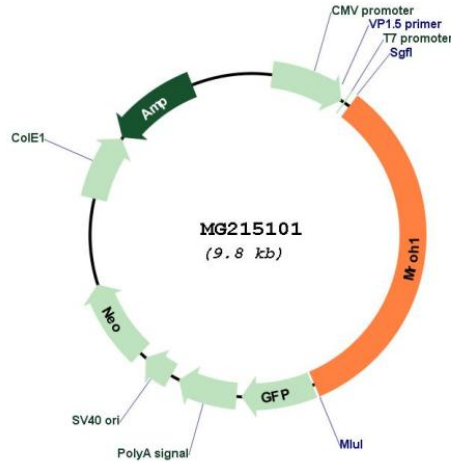
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001162489

ORF Size: 3282 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:	<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_001162489.1, NP_001155961.1</u>
RefSeq Size:	5111 bp
RefSeq ORF:	3285 bp
Locus ID:	223658
Cytogenetics:	15 D3