

Product datasheet for **MG217882**

Mon2 (NM_153395) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mon2 (NM_153395) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mon2
Synonyms:	2610528O22Rik; AW495628; mKIAA1040; Sf21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217882 representing NM_153395 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCTGCACCAACAGCCCCGAGGCTGTGAAGAAGCTGCTGGAGAATATGCAGAGCGACCTGCGGGCCT
TGTCAGTGAATGCAAGAAGAAGTTCCACCTGTCAAGGAGGCTGCTGAATCGGGAATAATAAAAGTTAA
AACAAAGCTGCAAGAACACGGAAATTTGGCAGCATTGAAAGAGAACAGCTCAGAGGTCGTGCAGCCT
TTCTAATGGGGTGTGGACCAAGGAACAAAGATCACACAGTTGTGTTGGCCGCCATCCAGAGACTCA
TGTCATGAAGTGGTGTCTGAGACTGCTGCTGGAAACATAATTAACATGCTTTGGCAGCTAATGGAAAA
CAGCCTTGAAGAACTTAAGCTGCTTCAAACAGTTCTTGTCTTTTAAACAACACACGGTAGTTTCATGAC
GAGGCACTTTCCAAGGCTATAGTTCTCTGTTTTGACTCCACTTCACAAAGGACAATATTACAAATAACA
CAGCTGCTGCTACAGTCCGACAGGTCGTGACTGTCGTCTTCGAGAGGATGGTGGCTGAAGATGACCGTCA
CAGAGATATAGAACCTCCAGTGCAGTCCAAGGAAACAGTAACAGAAGGTCGTGACGACGCTGAGACCC
TGTGCTAAGGACGCATACATGCTTCCAGGACCTCTGTGAGTTGGTTAACGCTGACGCCCTTACTGGC
TAGTGGGCATGACGAAATGACTCGGACATTTGGCCTTGAGTTGCTAGAGTCTGTCTCAATGATTTTCC
ACAAGTGTTTTACAGCATCAAGAATTCAGTTTCTCTCAAAGAACGGGTGTGTCGGCTCGTGATCAAG
CTCTTTTCTCAAACATCAAGTTCAGACAAGGCTCCAGTACGTCATCCTCTCCAGCACCCGTTGAAAAAC
CATATTTTCTATTTGCATGCGTTTACTGAGAGTGGTGTCTGTTCTGATCAAGCAGTTTTACAGCCTCTT
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AGAGATGCTGGACAAAGTTGAACCCCACTATCCAGAAGGCTATGCCATGTCCTGGCCTTCCACTGT



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CTGTTGGATCTTGTCCGTGGAATCACCACCATGATAGAAGGAGAGTTGGGAGAGGTAGAAGCAGAGGGTC
CCAGTGTACAGAGGGAGCCTCTTACAGTCGTGAGAACGGCGAGACGAGCAGGCGGCATCCGACCCGAT
GGACCAGGAAACAGCAGTGTGACGAGCTGTTGGGAAGAGATGGTGTGAGCGCTTGTGGTGTGGCCTTCTC
GCTGCGCTCTCGTCTCCTCGACGCCAGCACAGATGAGGCTGCCACCGAGAACATTTTGAAGGCTGAAC
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TCATATTCTGTTCTAAAAGCTGTGACACTCTCATCGACTCACTGAAGAAGACCCAGCCCGAGAATGTTGA
TGGCAATACCTGGTCAAGTATTGCCTTGTATCCGACGTTGGTGGAGTGCATCACCTGCTCATCTCA
GACGTCGGCTCTGCCCTGAAAGAGGCACTGGCTCCCTTAAGGACTTTCATGCAGCCGCCAGCATCCAGAG

TTCAAAATGGAGAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG217882 representing NM_153395

Red=Cloning site Green=Tags(s)

M SCTNSPEAVKLLLENMQSDLRAL SLECKKKFPPVKEAAESGIIKVKTIAARNT EILAALKENSSEVVQP
 FLMGCGTKEPKITQLCLAAIQRLMSHEVVSETAAGNIINMLWQLMENSLEELKLLQTVLVLLTTNTVVDH
 EALSKAIVLCFRLHFTKDNITNNTAAATVRQVVTVVFERMVAEDDRHRDIEPPVPIQGN SNRRSVSTLRP
 CAKDAYMLFQDL CQLVNADAPYWL VGMTEMTRTFGLELLESVLNDFPQVFLQH QEF SFLKERVCP LVIK
 LFS PN I KFRQGSSTSSSPAPVEKPYFPICMRLLRVVSVLIKQFYSLLVTECEIFLSLLVKFLDSDKPQWL
 RAVAVESIHRLCVQPQLLR SFCQSYDMKQHS TKVFRDIVNALGSFIQSLFLVPPTGNPATANQAGNNNAG
 GPASAPANSVGVVGGVGTLLPAFEYRGAWIPILTVTVQGS AKATYLEMLDKVEPPTIPEGYAMSVAFHC
 LLDLVRGITTTMIEGELGEVEAEGPSVTEGASSQSERRDEQAASDPMDQETAVSRAVWEEMVSACWCGLL
 AALSLLLDASTDEAATENILKAELTMAALCGRLGLVTSRDAFITAI CKGSLPPHYALTVLNATTAATLSN
 KSYSIQGSVMMISPSSESHQVAVGQPLAVQPQGTVM L TSKNIQCMRTLLNL AHCHGAVLGT SWQLVL
 ATLQHLVWILGLKPSGGALKPGRAVEGPSTVLT TAVMTDLPV ISN ILSRL FESSQYLD DVS LHH LINAL
 CSLSLEAMD MAYGNNKEPSLFAVAKLLETGLVNMHRIEILWRPLTGHLLEVCQHPNSRMREWGAELTSL
 IRAGLTF SHEPPLPQNQLQLLLL NPKEMSNINHPDIRL KQLECVLQILQS QGDSLGP GWPLVLGVMGA
 IRNDQGESLIRTA FQCLQLVVTDFLPTMPC SCLQIVVDVAGS FGLHNQELNISLTSIGLLWNI SDYFFQR
 GETIEKELNKEEAAQQQAEEKGVSLNRP FHPAPPDFDCLWCLYAKL GELCVDPRPAVRKSAGQTLFSTI
 GAHGTL LQHSTWHTVIWKVLFHLLDRVRESSTTADKEKIESGGGNILIHHSRDTAEKQWAE TWVLTLAGV
 ARIFNTRRYLLQPLGDFSRAWDVLLDHIQSAALSKNNEVSLAALKSFQEILQIVSPVRDSEKPEPPAVSV
 PVPVLLGNL SGPGLSRPFVRTDSIG EKLGRGSETPVVTDELEDLKLWAAWNTWHR TGSESTEPSSVD
 ELTFIPSPFLTALVQIFPALYQH IKAGFSMADLQKLG VILHS AVSVPISSDASPFILPSYTEAVL TSLQ
 EAVLTALDVLQK AICVGPENMQIMYPAIFDQLLAFVEFSCKPPQYGQLETKHIANAKYNQAEWVALNYVP
 FAERSLEVVDLYQKTACHKAVVNEKVLQNI IKTLRVPLSLKYSCPSESTWKLAVASLLKVL SIGLPVAR
 QHASSGKFD SMWPELASTLEDLFTKSIPP DNLSIQEFQRNESIDVEVVQLISAEILPYANLIPKAFVQ
 MMTMLNKGSIHSQPCSFTEAEIDIRLREEFSKMCFTLLQFSFSNKVTTTPQEGYISRMALSVLLKRSQDV
 LHRYIEDERLSGK CPLPRQQVTEIIFVLKAVSTLIDSLKKTQPENVDGNTWSQVIALYPTLVECTCSSS
 DVGSA LKEALAPFKDFMQPPASRVQNGES

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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_153395.2](#), [NP_700444.2](#)

RefSeq Size: 9279 bp

RefSeq ORF: 5127 bp

Locus ID: 67074

UniProt ID: [Q80TL7](#)

Cytogenetics: 10 D2

Gene Summary: May be required for traffic between late Golgi and early endosomes.[UniProtKB/Swiss-Prot Function]