

Product datasheet for **MC224858**

Mon2 (NM_001163025) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Mon2 (NM_001163025) Mouse Untagged Clone
Tag: Tag Free
Symbol: Mon2
Synonyms: 2610528O22Rik; AW495628; mKIAA1040; Sf21
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC224858 representing NM_001163025
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGTCCTGCACCAACAGCCCCGAGGCTGTGAAGAAGCTGCTGGAGAATATGCAGAGCGACCTGCGGGCCT
 TGTCACTAGAATGCAAGAAGAAGTTCCACCTGTCAAGGAGGCTGCTGAATCGGGAATAATAAAAGTTAA
 AACAAATAGCTGCAAGAAACACGAAATTTGGCAGCATTGAAAGAGAACAGCTCAGAGGTCGTGCAGCCT
 TTCTTAATGGGGTGTGGGACCAAGGAACCAAGATCACACAGTTGTGTTGGCCGCCATCCAGAGACTCA
 TGTCATGAAGTGGTGTCTGAGACTGCTGCTGAAACATAAATTAACATGCTTTGGCAGCTAATGAAAAA
 CAGCCTGAAGAACTTAAGCTGCTTCAAACAGTCTTGTCTTTTAAACAACCAACACGGTAGTTCATGAC
 GAGGCACTTTCCAAGGCTATAGTTCTCTGTTTTCGACTCCACTTCACAAAGGACAATATTACAAATAACA
 CAGCTGCTGTACAGTCCGACAGGTCGTGACTGTCGTCTCGAGAGGATGGTGGCTGAAGATGACCGTCA
 CAGAGATATAGAACCTCCAGTCCGATCCAAGGAAACAGTAACAGAAGGTCTGTGACGACGCTGAGACCC
 TGTGCTAAGGACGCATACATGCTCTCCAGGACCTCTGTCAGTTGGTTAACGCTGACGCCCTTACTGGC
 TAGTGGGCATGACGAAATGACTCGACATTTGGCCTTGAGTTGCTAGAGTCTGTCTCAATGATTTTCC
 ACAAGTGTTTTACAGCATCAAGAATTCAGTTTTCTCCTCAAAGAACGGGTGTGTCCGCTCGTGATCAAG
 CTCTTTTCTCAAACATCAAGTTCAGACAAGGCTCCAGTACGTCATCCTCTCCAGCACCCGTTGAAAAAC
 CATATTTTCTATTTGCATGCGTTTACTGAGAGTGGTGTCTGTTCTGATCAAGCAGTTTTACAGCCTCTT
 GGTGACTGAGTGTGAAATATTTCTGCACTTCTGGTGAAGTTTCTGGATTGAGTAAGCCACAGTGGCTT
 CGAGCTGTTGAGTGGAGTCGATACACAGGCTCTGTGTGACGCTCAGTTACTAAGGTCAATTTGTCAGT
 CGTATGACATGAAGCAACATCCACCAAGTTTTCCGAGACATTGTAATGCACTGGGGTCTTTTATCCA
 GTCTCTGTTTCTGTCCCTCTACTGAAATCCTGCCACAGCCAACCAAGCTGAAACAATAATGCTGGC
 GGCCAGCCTCAGCACCAGCTAACTCGGGGTGGTGGCGTCCGTTGGGGCGTTACTCTGCTGCCAGCCT
 TTGAGTATCGAGGAGCCTGGATACCCATCCTGACCGTTACCGTTCAAGGACAGTGCTAAAGCCACCTACCT
 AGAGATGCTGGACAAAGTTGAACCCCCAACTATCCAGAAGGCTATGCCATGTCCGTGGCCTTCCACTGT
 CTGTTGGATCTTGTCCGTGGAATCACCACCATGATAGAAGGAGAGTTGGGAGAGGTAAGAAGCAGAGGGTC



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CCAGTGTACAGAGGGAGCCTTTCACAGTCGTGACAGAACGGCGAGACGAGCAGGCGGCATCCGACCCGAT
GGACCAGGAAACAGCAGTGAGCAGAGCTGTTGGGAAGAGATGGTGAGCGCTTGCTGGTGTGGCCTTCTC
GCTGCGCTCTCGCTCCTCCTCGACGCCAGCACAGATGAGGCTGCCACCGAGAACATTTTGAAGGCTGAAC
TGACCATGGCTGCTCTGTGGAAGACTGGGCCTTGACCTCGAGAGACGCCTTTATAACTGCAATATG
CAAAGGCTCCTTGCCGCCACACTATGCTCTGACTGTGCTGAACGCCACCACTGCGGCGACACTCTCCAAT
AAATCATATTCTATCCAGGGCCAAAGTGTATGATGATCAGCCCGTCCAGCGAGTCTCACCAGCAAGTTG
TGGCCGTGGTCAAGCTTTGACGTGCAGCCTCAAGGAACAGTGATGCTGACTTCCAAAAATATTCAGTG
CATGAGGACTCTGCTGAACCTGGCCCACTGTACGGCGCTGTTCTTGAACATCATGGCAACTTGTCTG
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CCTTTCTAGACTGTTTGAAGCTCACAGTATCTTGATGACGTATCTTGCATCATTTAATAAATGCACTT
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TCTACTTGAGGTCTGCCAGCATCCAACTCTCGGATGCGGGAGTGGGAGCAGAAGCTTTGACGTCACTC
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CCAAGAAGTAAATATTAGCTTAACGTCAATAGGCTTATTGTGGAATATATCAGATTATTTTTCCAAAGA
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TGTCTCTGAACCGGCCGTTCCACCCCGCCACCCTCGACTGCTTGTGGCTCTGCCTCTATGCCAAGCT
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GGAGCGCACGGGACCCTGCTGCAGCACTCCACCTGGCACACCGTATTTTGAAGGTACTCTTTCATCTAC
TGGACCGAGTTCGAGAATCTTCTACAAGTGCAGACAAAGAAAAGATTGAGTCTGGAGGTGGAATATTTT
AATTCATCACTCAAGAGACACGGCAGAGAAGCAGTGGGCTGAGACCTGGGTATTGACATTGGCTGGAGTA
GCACGGATCTTCAACACCAGGAGATACTTGCTGCAGCCTCTAGGAGACTTCTCAAGAGCTTGGGATGTT
TTCTTGACCACATCCAGTCAGCTGCACTCAGTAAAAACAATGAAGTGTCCCTGGCCGCTCTGAAAAGCTT
CCAGGAGATATTACAGATTGTGTCCCCTGTCCGAGACTCAGAGAAGCCCGAGCCCTGCCGTTAGCGTG
CCCGTACCCGCTCTTAGGAAACCTTTCCGGCCAGGCTGAGCAGGCCGTTTGTGAGGACAGACTCCA
TTGGAGAAAAGCTTGGCAGATGCGGCTCGGAGACGCTGTGGTACTGACGAGCTGGAAGATCTGAAGCT
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GAGCTGACCTTTATCCCAAGCCAGCCTTTCCTTACAGCCTTAGTTCAGATCTTCCCTGCCCTTACCAGC
ACATAAAAGCTGGCTTACAGATGGCCGACTTGCAAGAGCTGGGCGTCATCCTGCACAGCGCTGTCTCTGT
CCCCATCAGTTCTGACGCTCTCCTTTCATCCTCCGCTTACACGGAAGCAGTCTGACAAGTTTACAG
GAAGCTGTGCTTACGGCCTTAGACGTTCTCCAGAAGGCCATCTGTGTTGGACCAGAAAACATGCAGATCA
TGTACCCGGCTATATTGACCAGTTGCTGGCGTTCGTAGAGTTTCTGTAAACCTCCACAGTATGGACA
GCTGGAACAAAGCACATTGCAATGCCAAGTACAACAGGCGGAATGGTAGCCTTGAATTATGTACCG
TTTGTGAAAGATCTTTAGAAGTAGTTGTGGATTTGTATCAAAAAACGGCTTGTATAAAGCAGTGGTGA
ATGAGAAAAGTCTCCAGAATATTATTAAGACTCTCAGGGTTCCTCTCAGTTTGAAGTATTATGCCCTTC
TGAAAGCACGTTGAAAAGTGGCGGTAGCCTCTCCTCAAAGTCTGTCCATCGGACTGCCGTTGCCCGA
CAGCATGCTTCTCGGGGAAATTTGACAGCATGTGGCCAGAGTTAGCCAGCACGCTTGAAGACTTCTCT
TTACTAAAAGCATACCTCCAGATAATCTCTCTATTCAAGAATTTCAAAGAAATGAAAGTATTGATGTTGA
AGTTGTTGAGCTCATCAGTGGGAGATCTCCCGTATGCCAACCTCATTCTAAAGCGTTCGTGGGTCAG
ATGATGACCATGCTCAACAAGGGCTCCATCCACTCTCAGCCGTGCTCATTACAGAAGCAGAAAATTGACA
TTCGTTTGAGAGAAGAATTTTCTAAAATGTGTTTTGAAACATTGCTCCAGTTTCTTTCAGTAAACAAGT
CACAACACCCAGGAAGGCTACATCTCAGGAATGGCACTCTCTGTGCTTTTAAAGAGGTCTCAGGATGTT
CTGCATCGCTACATAGAGGATGAGAGGCTGAGTGGAAAATGCCCTCTCCAAGGCAGCAAGTACAGAAA
TCATATTCGTTCTAAAAGCTGTCAGCACTCTCATCGACTCACTGAAGAAGACCCAGCCCGAGAATGTTGA
TGGCAATACCTGGTCACAAGTATTGCCTTGATCCGACGTTGGTGGAGTGCATCACCTGCTCATCTCA
GACGTCGGCTCTGCCCTGAAAGAGGCACTGGCTCCCTTAAAGGACTTCATGCAGCCGCCAGCATCCAGAG
TTCAAAATGGAGAGTCTTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001163025

Insert Size: 5130 bp

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).

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_001163025.1](#), [NP_001156497.1](#)

RefSeq Size: 9282 bp

RefSeq ORF: 5130 bp

Locus ID: 67074

Cytogenetics: 10 D2

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

Transcript Variant: This variant (2) uses an alternate in-frame splice site and lacks two in-frame exons in the coding region compared to variant 1. This results in a shorter protein (isoform 2) compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.