

Product datasheet for MR222716

II34 (NM_029646) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: II34 (NM_029646) Mouse Tagged ORF Clone
 Tag: Myc-DDK
 Symbol: II34
 Synonyms: 2010004A03Rik; AI593503
 Mammalian Cell Selection: Neomycin
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 ORF Nucleotide Sequence: >MR222716 representing NM_029646
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGCCCTGGGACTCGCCTGGCTATACTGTCTTGGGATCCTACTTGACGTGGCTTTGGGAAACGAGAATT
 TGGAGATATGGACTCTGACCCAAGATAAGGAGTGTGACCTTACAGGCTACCTTCGGGGCAAGCTGCAGTA
 CAAGAACCGGCTTCAGTACATGAAACATTACTTCCCCATCAACTACAGGATTGCTGTGCCTTATGAGGGG
 GTACTCAGAGTGGCCAACATCACAAGGCTGCAGAAGGCTCACGTGAGTGAGCGAGAGCTTCGGTACCTGT
 GGGTCTTGGTGAGTCTCAATGCCACTGAGTCTGTGATGGATGTACTTCTCGAGGGCCACCCGTCTGGAA
 GTATCTACAGGAGTTTACAGATTGCTGGAGAAGTACAGCGGAGCCTCATGGCCGTTGGTGTACACCTG
 CCGGGACACGTAATTGTGACCCTGCTCAGCCAGCTGCCTGGCCTCCCCAGCCCATGGGCCAGATCATTTG
 ACACCAGCTGGGAGCTTCTGATGATGAAAGGATGTGGAGATTGGCCCTCACGTGGAAGCTGTGTTATCTC
 TTCTGAGTACTCCAGGCCTAAGCCTGAAGCTGGTGCGGCCAAAGCCTTGCTGGACAACCTGCTCCGGGT
 CATGGAAGTGTACTGTTCTTGCTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR222716 representing NM_029646
Red=Cloning site Green=Tags(s)

MPWGLAWLYCLGILLDVALGNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINRYIAVPYEG
 VLRVANIIRLQKAHVSERELRYLWVLSLNATESVMDVLLLEGHPSWKYLQEVQTLLENVQRSLMAVGVHL
 PGHVLVTLLSQLPGLPSPWARSFDTSWELLMKCGDWP SRGSCVISSEYSRPKPEAGAAQSLAGQLLPG
 HGTAVLFLL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_029646

ORF Size: 657 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_029646.3](#), [NP_083922.1](#)

RefSeq Size: 1838 bp

RefSeq ORF: 660 bp

Locus ID: 76527

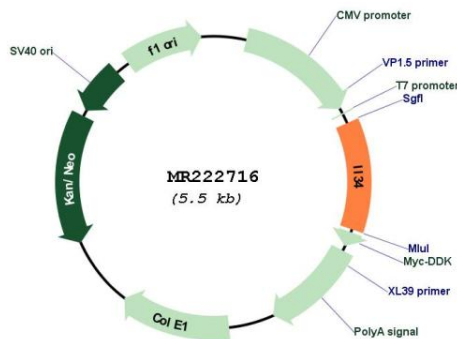
UniProt ID: [Q8R1R4](#)

Cytogenetics: 8 E1

MW: 25.2 kDa

Gene Summary: Cytokine that promotes the proliferation, survival and differentiation of monocytes and macrophages. Promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. Plays an important role in the regulation of osteoclast proliferation and differentiation, and in the regulation of bone resorption. Signaling via CSF1R and its downstream effectors stimulates phosphorylation of MAPK1/ERK2 AND MAPK3/ERK1 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR222716