

Product datasheet for **MR202857**

II34 (NM_001135100) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	II34 (NM_001135100) 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:	>MR202857 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGGACTCGCCTGGCTATACTGTCTTGGGATCCTACTTGACGTGGCTTTGGAAACGAGAATT
TGGAGATATGGACTCTGACCCAAGATAAGGAGTGTGACCTTACAGGCTACCTTCGGGGCAAGCTGCAGTA
CAAGAACCGGCTTCAGTACATGAAACATTACTTCCCCATCAACTACAGGATTGCTGTGCCTTATGAGGGG
GTACTCAGAGTGGCCAACATCACAAGGCTGCAGAAGGCTCACGTGAGTGAGCGAGAGCTTCGGTACCTGT
GGGTCTTGGTGTCTCAATGCCACTGAGTCTGTGATGGATGTACTTCTCGAGGGCCACCCGTCTGGAA
GTATCTACAGGAGTTTACAGATTGCTGGAGAAGTACAGCGGAGCCTCATGGATGTGGAGATTGGCCCT
CACGTGGAAGCTGTGTTATCTTCTGAGTACTCCAGGCCTAAGCCTGAAGCTGGTGCAGCCCAAGCCT
TGCTGGACAACCTGCTTCCGGGTGATGGAAGTGTGACTGTTCTTGTGTAAACAAGCCCCATCTTAAA
ATGGCAGGACTGCGAGCTGCCAGGCTCCATCCCCACAGTCCGGGGTCTTGTGCAATGTACAGCTACA
AATGTGTACCCTTTGTCTCGGCAGACCCACCTCCCTGCCCGGATCCCCAAGCTCAAGCCATGGCTCGT
TGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202857 protein sequence
Red=Cloning site Green=Tags(s)

MPWGLAWLYCLGILLDVALGNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINRYIAVPYEG
 VLRVANIIRLQKAHVSERELRYLWVLSLNATESVMDVLLLEGHPSWKYLQEVQTLLENVQRSLMDVEIGP
 HVEAVLSLLSTPGLSLKLVLPKALLDNCFRVMELLYCSCCKQSPILKWQDCELPRLHPHSPGSLMQCTAT
 NVYPLSRQTP TSLPGSPSSSHGSLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_001135100

ORF Size: 708 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_001135100.2](#)

RefSeq Size: 1747 bp

RefSeq ORF: 708 bp

Locus ID: 76527

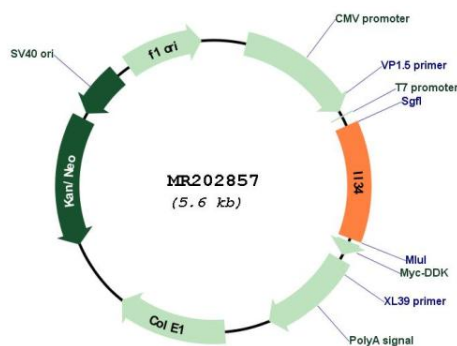
UniProt ID: [Q8R1R4](#)

Cytogenetics: 8 E1

MW: 26.8 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 MR202857