

Product datasheet for **MG222716**

II34 (NM_029646) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	II34 (NM_029646) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	II34
Synonyms:	2010004A03Rik; AI593503
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG222716 representing NM_029646 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCTGGGACTCGCCTGGCTATACTGTCTTGGGATCCTACTTGACGTGGCTTTGGGAAACGAGAATT
TGGAGATATGGACTCTGACCCAAGATAAGGAGTGTGACCTTACAGGCTACCTTCGGGGCAAGCTGCAGTA
CAAGAACCGGCTTCAGTACATGAAACATTACTTCCCCATCAACTACAGGATTGCTGTGCCTTATGAGGGG
GTACTCAGAGTGGCCAACATCACAAGGCTGCAGAAGGCTCACGTGAGTGAGCGAGAGCTTCGGTACCTGT
GGGTCTTGGTGAGTCTCAATGCCACTGAGTCTGTGATGGATGTACTTCTCGAGGGCCACCCGTCTGGAA
GTATCTACAGGAGTTTACAGATTGCTGGAGAAGTACAGCGGAGCCTCATGGCCGTTGGTGTACACCTG
CCGGGACACGTAATTGTGACCCTGCTCAGCCAGCTGCCTGGCCTCCCCAGCCCATGGGCCAGATCATTTG
ACACCAGCTGGGAGCTTCTGATGATGAAAGGATGTGGAGATTGGCCCTCACGTGGAAGCTGTGTTATCTC
TTCTGAGTACTCCAGGCCTAAGCCTGAAGCTGGTGC GGCCAAAGCCTTGCTGGACAACCTGCTCCGGGT
CATGGAAGTGTACTGTTCTTGCTG

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG222716 representing NM_029646
 Red=Cloning site Green=Tags(s)

MPWGLAWLYCLGILLDVALGNENLEIWTLTQDKECDLTGYLRGKLQYKNRLQYMKHYFPINRYIAVPYEG
 VLRVANIITRLQKAHVSERELRYLWVLSLNATESVMDVLLLEGHPWSWKYLQEVQTLLENVQRSLMAVGVHL
 PGHVLVTLLSQLPGLPSPWARSFDTSWELLMMKGGDWP SRGSCVISSEYSRPKPEAGAAQSLAGQLLPG
 HGTAVLFLL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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

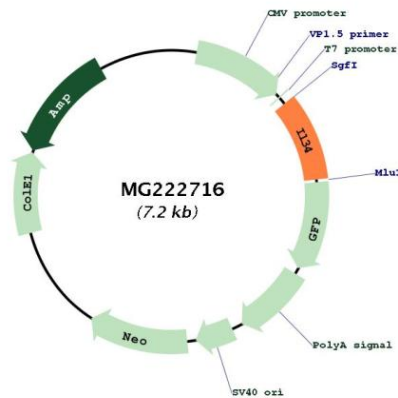
Locus ID: 76527

UniProt ID: [Q8R1R4](#)

Cytogenetics: 8 E1

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 MG222716