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Product datasheet for MG205625

Cd14 (NM_009841) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cd14 (NM_009841) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cd14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG205625 representing NM_009841
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGCGTGTGCTTGGCTTGTTGCTGTTGCTTCTGGTGCACGCCTCTCCCGCCCCACCAGAGCCCTGCG
AGCTAGACGAGGAAAGTTGTTCCTGCAACTTCTCAGATCCGAAGCCAGATTGGTCCAGCGCTTTCAATTG
TTTGGGGGCGGCAGATGTGGAATTGTACGGCGGCGGCCGCAGCCTGGAATACCTTCTAAAGCGTGTGGAC
ACGGAAGCAGATCTGGGGCAGTTCACTGATATTATCAAGTCTCTGTCCTTAAAGCGGCTTACGGTGCGGG
CCGCGCGGATTCCTAGTCGGATTCTATTCGGAGCCCTGCGTGTGCTCGGGATTTCCGGCCTCCAGGAACT
GACTCTTGAAAATCTCGAGGTAACCGGCACCGCGCCGCCACCGCTTCTGGAAGCCACCGGACCCGATCTC
AACATCTTGAACCTCCGCAACGTGTCGTGGGCAACAAGGGATGCCTGGCTCGCAGAACTGCAGCAGTGGC
TAAAGCCTGGACTCAAGGTACTGAGTATTGCCCAAGCACACTCACTCAACTTTTCCTGCGAACAGGTCCG
CGTCTTCCCTGCCCTCTCCACCTTAGACCTGTCTGACAATCCTGAATTGGGCGAGAGAGGACTGATCTCA
GCCCTCTGTCCCCTCAAGTTCCCGACCCTCCAAGTTTTAGCGCTGCGTAACGCGGGGATGGAGACGCCCA
GCGGCGTGTGCTCTGCGCTGGCCGCAGCAAGGGTACAGCTGCAAGGACTAGACCTTAGTCACAATTCACT
GCGGGATGCTGCAGGCGCTCCGAGTTGTGACTGGCCCAGTCAGCTAAACTCGCTCAATCTGTCTTTCACT
GGGCTGAAGCAGGTACCTAAAGGGCTGCCAGCCAAGCTCAGCGTGCTGGATCTCAGTTACAACAGGCTGG
ATAGGAACCCTAGCCCAGATGAGCTGCCCCAAGTGGGGAACCTGTCACTTAAAGGAAATCCCTTTTTGGA
CTCTGAATCCCACTCGGAGAAGTTTAACTCTGGCGTAGTCACCGCCGGAGCTCCATCATCCCAAGCAGTG
GCCTTGTCAGGAACTCTGGCTTTGCTCCTAGGAGATCGCCTCTTTGTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

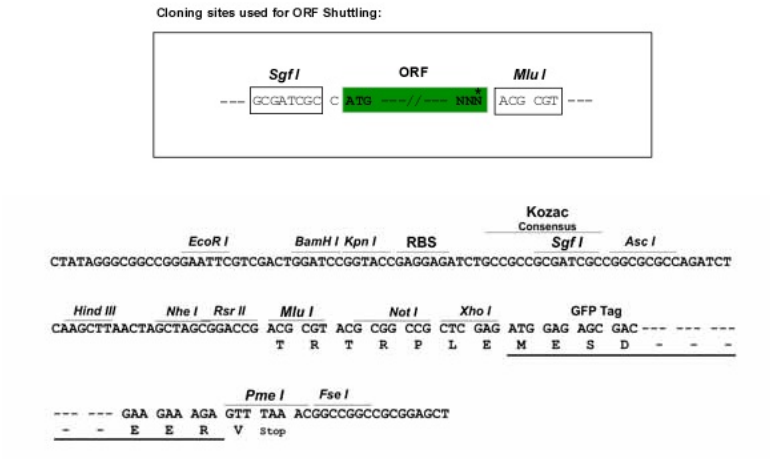
>MG205625 representing NM_009841
Red=Cloning site Green=Tags(s)

MERVLGLLLLLLVHASPAPPEPCELDEESCSCNFSDPKPDWSSAFNCLGAADVELYGGGRSLEYLLKRVD
TEADLGQFTDIIKSLSLKRLTVRAARIPSRILFGALRVLGISGLQELTLENLEVTGTAPPPLLEATGPDL
NILNLRNVSWATRDAWLAELQQWLKPGLKVLSIAQAHSLNFSCEQVRVFPALSTLDLSDNPELGERGLIS
ALCPLKFPTLQVLALRNAGMETPSGVCSALAAARVQLQGLDLSHNSLRDAAGAPSCDWPSQLNSLNLSFT
GLKQVPKGLPAKLSVLDLSYNRLDRNPSPDELPQVGNLSLKGNPFLDSESHSEKFNSGVVTAGAPSSQAV
ALSGTLALLLGDRLFV

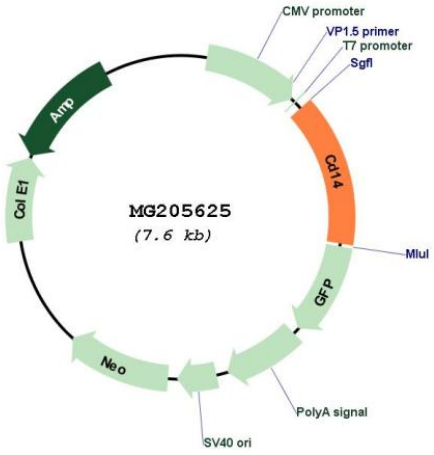
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_009841

ORF Size:	1098 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_009841.2
RefSeq Size:	1497 bp
RefSeq ORF:	1101 bp
Locus ID:	12475
UniProt ID:	P10810
Cytogenetics:	18 19.46 cM
Gene Summary:	This gene encodes a protein that plays an important role in the innate immune response and is expressed in monocyte/macrophage cells. This gene product acts as a co-receptor that binds several microbial and fungal molecules, including lipopolysaccharides (LPS). This proteins LPS-binding activity is enhanced by the LPS binding protein (LBP) to allow binding to the TLR4-MD-2 co-receptor complex. The product of this gene is found in two forms, either as a soluble protein or attached to the cell surface by a glycosylphosphatidylinositol anchor. [provided by RefSeq, Jul 2014]