

Product datasheet for **MR225525**

Il12rb2 (NM_008354) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Il12rb2 (NM_008354) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Il12rb2
Synonyms:	A930027I18Rik; Ifnm; IL-12RB2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR225525 representing NM_008354
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCACAGACTGTTAGAGAATGCTCATTGGCACTTCTTTTTTTGTTTCATGTGGCTGCTGATTAAGCAA
 ATATAGATGTGTGCAAGCTTGGCACTGTGACCGTCCAGCCTGCCCTGTGATTCCCTTTGGGTGAGCTGC
 CAATATTTCTGCTCCTTGAATCCCAAGCAAGGCTGTTACATTATCCAGTTCTAACGAATTAATCCTC
 TTAAGTTTGTCAATGATGTCCTTGTGAAAATCTCCATGGCAAGAAAGTCCATGACCACACTGGTCACT
 CCTCCACTTTTCAAGTACCAACCTGTCCCTTGGTATGACCTTGTGTGCTGCAAGCTAACTGTAGCAA
 CTCTCAAAGAAGCCACCAGTCCAGTATGTGGGGTGGAGATCTCAGTTGGTGTGCTCCAGAGCCACCT
 CAAAACATATCATGTGCCAGGAAGGAGAAAATGGAAGTGTGGCCTGTTCTGAACTCTGAAAAGTTA
 CTTATCTGAAAACCAATTACACTTTACAGTTAAGTGGACCAAACAATCTGACCTGTGAGAAACAATGTTT
 TTCTGACAATCGTCAGAATTGCAATCGCCTGGATCTTGGGATCAATCTAAGCCCTGATTTAGCTGAATCC
 AGGTTTCATAGTCCGTGTTACTGCCATCAACGATCTTGGAAATCTTCTCACTTCCGCATACGTTACGT
 TCTTGGACATAGTGATCCCTCTTCTCCGTGGGACATCAGAATCAACTTTCTAAATGCTTCTGGGAGCAG
 AGGTACACTGCAGTGGGAAGATGAGGGGCAAGTGGTACTCAATCAACTCAGATATCAGCCTCTAACAGC
 ACGTCTTGGAAATGGTCAATGTACAAATGCCAAAGGAAAATATGACCTGCGAGATCTGAGACCGTTTA
 CAGAATATGAATTTCAAATCTCCTCTAAGCTACATCTCTCTGGAGGAAGTTGGAGTAATGGAGTGAGTC
 ACTGAGAACACGAACACCAGAGGAAGAGCCTGTTGGGATATTAGACATCTGGTACATGAAACAAGACATC
 GACTATGACAGACAGCAGATCTCTTTTCTGGAAGAGTCTGAATCCATCAGAGGCAAGGGGAAGATCC
 TCCACTATCAGGTGACGTTACAAGAGTGACAAGAAAACAACACTGCAGAATACTACAAGACACCTC
 CTGGACCAGGGTATCCCCGAACTGGGGCTTGGACGGCATCAGTGTCTGCAGCCAACTCAAAGGGCCT
 TCTGCACCCACTCACATTAACATAGTGGACCTATGTGGCACTGGGTTGCTGGCTCCTCACCAGGTCTCTG
 CAAAGTCGGAGAACATGGACAACATTCTAGTGACCTGGCAGCCTCCTAAGAAAGCTGATTCTGCTGTTTCG
 GGAGTACATAGTGAATGGAGAGCTCTCCAACCAGGGAGCATCACGAAGTTTCCCCCACTGGCTGCGG
 ATCCCCCGGACAACATGTCTGCTCTGATTTTCTGAGAACATAAAGCCCTATATCTGTTATGAAATCAGGG
 TGCATGCACTGTGAGAGGCAAGGAGGGTGCAGCTCCATCCGGGGTACTCCAAGCACAAGCACCAGT
 GAGTGGCCCTCACATTACTGCCATCACAGAGAAAAGGAACGCCCTTTTCATTTCTGGACCCACATTCCA
 TTCCCGGAGCAAAGGGGCTGCATCCTCCATTACAGAATATACTGGAAGAAGCAGACTCGACAGCACAAC
 CTGAGCTCTGCGAAATCAGTACCGACGCTCTCAAACCTCACATCCAATAGCAGCCTACAGCCAGGGT
 GACATATGTCCTATGGATGACAGCTGTGACAGCTGCTGGTGAAGTCCCCAAGGAAATGAAAGGGAATTT
 TGTCCACAGGGCAAAGCCAACCTGAAAAGCATTCTGTGATATCAAGCATTTCATCGCTATCATCACGGTGG
 GCACGTTCTCAATTCGTTACTTCCGGCAAAGGCATTTACTCTCCTGTCTACTCTCAAACCTCAATGGTA
 TAGCAGAACCATCCAGATCCAGCAAACAGCACTTGGGTAAGAAGTATCCCATTTCTGGAGGAGAAGATC
 CAGCTACCTACGGATAATCTCCTGATGGCATGGCCACTCCTGAAGAGCCTGAGCCCTGATCATCCATG
 AAGTCTCTACCATGATCCCAGTTGTGAGACAACCATATTACTTCAAAGAGGCAAGGATTTCAAGG
 CTACTCTACCTCCAAGCAAGATGCAATGTATATTGCCAATCCACAAGCTACAGGAATCTCACAGCTGAG
 ACCAGACAACCTAGTGAACCTATACAAGGTGCTAGAAAAGCAGAGACCCTGACTCAAACCTGGCCAACCTGA
 CCAGCCCTTGACAGTCAACCCAGTGAACCTTCTAGCCATGAAGGCTATTTACCCTCCAACATAGA
 AGATCTGTACCACATGAGGCTGACCCAACCTGATTTTGTGACCTGGAGCATCAACATATTTCTCTTTCC
 ATTTTTGCATCAAGTTCTCTCGCCCACTCATCTCGGTGGTGGAGCGGCTGACTTAGATCGGTTAAAGA
 TGGGCTATGACTCCCTCATGAGTAATGAGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR225525 representing NM_008354
 Red=Cloning site Green=Tags(s)

MAQTVRECSLALLFLFMWLLIKANIDVCKLGTVTVPAPVIPLGSAANISCSLNPQGC SHYPSSNELIL
 LKFVNDVLVENLHGKVVHDHTGHSTFQVTNLSLGMTL FVCKLNCSNSQKKPPVPVCGVEISVGV APEPP
 QNISCVQEGENGTVACSWNSGKVTYLKNTYTLQLSGPNNLTCQKQCFSDNRQNCNRLDLGINLSPDLAES
 RFIVRVTAINDLGNSSSLPHTFFFLDIVIPLPPWDIRINFLNASGSRGTLQWEDEGQVVLNQLRYQPLNS
 TSWNMVNATNAKGKYDLRDLRPFTEYEFQISSKHLHSGGSWSNWESELRTRTPEEPVGI LDIWYMKQDI
 DYDRQQIISLFWKSLNPSEARGKILHYQVTLQEVTKKTTLQNTTRHTSWTRVIPRTGAWTASVSAANSKGA
 SAPTHINIVDLCGTGLLAPHQVSAKSENMDNILVTWQPPKADS AVREYIVWRALQPGSITKFP PHWLR
 IPPDNMSALISENIKPYICYEIRVHALSESQGCSSIRGDSKHKAPVSGPHITAI TEKKERLFISWTHIP
 FPEQRGCILHYRIYWKERDSTAQPELCEIQYRRSQNSHPISLQPRVTYVLWMTAVTAAGESPQGNEREF
 CPQGANWKAFVISSICIAIITVGTFSIRYFRQKAFTLLSTLKPQWYSRTIPDPANSTWVKYP ILEEKI
 QLPDNDLLMAWPTPEEPEPLIIHEVLYHMIPVVRQPYF KRGQGFQGYSTSKQDAMYIANPQATGLTAE
 TRQLVNLKLVLESRDPDSKLANLTSPLTVTPVNYLPSHEGYLPSNIEDLSPHEADPTDSFDLEHQHISLS
 IFASSSLRPLIFGGERLTLDR LKMGYDSLMSNEA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9012_f09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

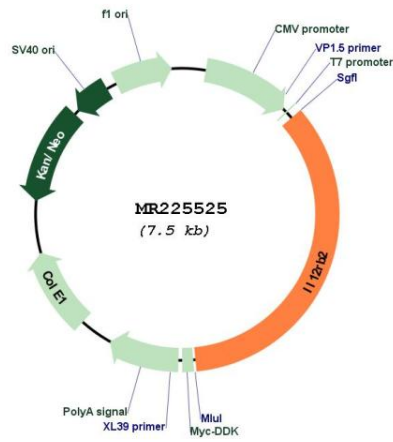
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_008354
ORF Size:	2622 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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:	<ol style="list-style-type: none"> 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_008354.4
RefSeq Size:	2947 bp
RefSeq ORF:	2625 bp
Locus ID:	16162
UniProt ID:	P97378
Cytogenetics:	6 30.81 cM
MW:	98.6 kDa
Gene Summary:	Receptor for interleukin-12. This subunit is the signaling component coupling to the JAK2/STAT4 pathway. Promotes the proliferation of T-cells as well as NK cells. Induces the promotion of T-cells towards the Th1 phenotype by strongly enhancing IFN-gamma production. Can also activate STAT3.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR225525