

Product datasheet for **MR217155**

Irak2 (NM_001113553) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Irak2 (NM_001113553) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Irak2
Synonyms:	6330415L08Rik; AI649099; IRAK-2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR217155 representing NM_001113553
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTTGCTACATCTACCAGCTGCCGTCTGGGTGCTGGACGACCTGTGCCGAATATCGACACGCTCA
 GTGAGTGGGACTGGATGCAGTTCGTTCCCTACGTGATCACAGACCTGACACAGCTGAGGAAGATCAAGTC
 CATGGAGAGGGTCCAGGGGTGAGCATACCCGGGAGCTACTGTGGTGGTGGTCCATGCGCAGGCCACG
 GTCCAGCAGCTGGTGGACCTCTGTGTACCTGGAACCTACCGAGCTGCCAGATTGTCTTGAGCTGGC
 CCATCATGGCTGGGGCCAGCGGACGCTCCGTGCGAGATGGATGCCCTTGTCCCTGAAAAGCTGATGC
 ACCCGACTCTCCCAGTCTAAGTATTGCAGTACTCCACATCTGCCCCCAAGCAAGAAAGGCTTTTGGGT
 TTGCCCGAGACAGGCTTTCTGGAGTGAAGCAGATGTCGTCCAAGCAACTGAGGACTTTGACCAAAGCC
 ACCGAATCAGCGAGGGCACCTTTGCCGATATCTACCAGGGTCAAAGGAACGGTGTGGCTTCGCCTCAA
 GAAGCTCAGGGAGGTGGCCGGCTCCAGTCCAGGGTCCATGGACAGATTCTACAGGCAGAGATGCAGCTC
 TGCTCAGATGCTGCCACGCGAAGCTCCTACCTCTGCTGGGTTTCTGCACTGGAAGACAGTTCCACAGCC
 TCATCTACCCCTACATGGCAAATGGCTCTCTGCACGACAGACTCTGGGCTCAGGGCAACTCAGACATGCT
 GCCCTGGCCACAGCGGGCCAGCATCTGCTCAGGGCTGCTTCTAGCCGTGGAGCACCTGCATAGCCTGGAC
 ATCATCCACAGCAATGTTAAGAGTGCCAACGTCTTGTGGACCAGCATCTTAACCCCAAGCTGGCTCATC
 CTGTGGCTCACCTCATCCCGACAATAAAAAGACCAATAATACCGTCAATGAGGACTCACCTGTTCCAGGC
 CTCAGCTGCATATCTGCCGGAACACTTCATCAGAGTGGGCGAGCTGACCAAGCAGGTGGACATCTTCAGC
 TGTGGAATTGTATTGGCCGAGGTCCTTACCGGCATCCCTGCGATGGACAAGGACCGCAGTCCAGTTTACC
 TGAAGGATTTGCTTCTCAGTGAGATTCCAACAGTACTTCTTCAGTCTGCTCCAGGAAGACCAGCATGGG
 GAAGGCAGTGGTGAAGAGATCTGCCAGAGACATGTGGAGAAGAGGGCAGGGCTGCTGCCTGAGGCCTGT
 GAGGAAGCCTGGGCCACCGCTGTGAGTGTCTGCCTGCGGAGGCGCAATGCCAGCGTGGAGGAGGCACGAG
 TCTCCCTGGCCGGGTGGAGGAGCAACTCCGAGGGCAGCTGTCCCTTCCCTGGAGCAGGGTTTCTGAGGC
 CACAGGCTCATCTCCAATACCCCGGAGGAAACAGATGACGTTGACAATCCAGCCTCAGCGTCCCTTCT
 TTGTTATGATGGCATCGTCCCGAGGGCTGCCTCCTCTCCACTTTCACGGGACATGGAGCAGCACAGC
 CATCCACCAGTGGGAGACAGGAGGCTGACTCCTCGTCAGAGGCTTGACAGGCCACAGACACCCAGAA
 CGCTACAGAGACTTCATGAAAAATTGAGATCAATGAAGCCAAAAGGAGACTGATGGAGAATCGTACTC
 TACAAAGAAGAGAGACTGGACAGCAGCGAGCTCTTTGGACCC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR217155 representing NM_001113553
 Red=Cloning site Green=Tags(s)

MACYIYQLPSWVLDLDCRNIDTLEWDWMQFASYVITDLTQLRKIKSMERVOGVSITRELLWWSMRQAT
 VQQLVDLLCHLELYRAAQIVLSWPIMAGAQRQRPCEMDAPCSLKTADPSPQSKYCSTSTSAKQERLLG
 L PGDRLFWSEADVQATEDFDQSHRISEGTADIYQQRNGVAF AFKKLREVAGSSPGSMDFLQAEML
 CLRCCANVLP LLGFCTGRQFHSLIYPYMANGLHDRLWAQNSDMLPWPQRASICSGLLLAVEHLHSLD
 I IHSNVKSANVLLDQHLNPKLAHPVAHPDPNKKTKYTVMRTHLFQASAAYLPEHFIRVQQLTKQVDIFS
 CGIVLAEVLTGIPAMDKDRSPVYLKDLLSEIPNSTSSVCSRKTSMGKAVVKEICQRHVEKRAGLLPEAC
 EEAWATAVSVCLRRRNASVEEARVSLAGVEEQLRGQLSLPWSRVSEATGSSSNTPEETDDVDNSSLVPS
 LVMASCPGAASSPLFTGHGAAQPSTSGRQEADSSSEACTGPQTPQNAETETSWKIEINEAKRRLMENIVL
 YKEERLDSSSELFPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

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:	<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_001113553.1 , NP_001107025.1
RefSeq Size:	3065 bp
RefSeq ORF:	1725 bp
Locus ID:	108960
UniProt ID:	Q8CFA1
Cytogenetics:	6 52.82 cM
MW:	64.3 kDa
Gene Summary:	Binds to the IL-1 type I receptor following IL-1 engagement, triggering intracellular signaling cascades leading to transcriptional up-regulation and mRNA stabilization.[UniProtKB/Swiss-Prot Function]