

## Product datasheet for **RG218437**

### **IRAK2 (NM\_001570) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IRAK2 (NM_001570) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRAK2
Synonyms:	IRAK-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG218437 representing NM\_001570  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTGCTACATCTACCAGTGCCTCTGGGTGCTGGACGACCTGTGCCGAACATGGACGCGCTCA  
 CGGAGTGGGACTGGATGGAGTTCGCTCCTACGTGATCACAGACCTGACCCAGCTCGGGAAGATCAAGTC  
 CATGGAGCGGGTGCAGGGTGTGAGCATCACGGGAGCTGCTGTGGTGGTGGGGCATGCGCAGGCCACC  
 GTCCAGCAACTTGTGGACCTCTGTGCCGCTGGAGCTCTACCGGCTGCCAGATCATCTGAACTGGA  
 AACCGGCTCTGAAATCAGGTGTCCATTCCAGCCTTCCCTGACTCTGTGAAGCCAGAAAAGCCTTTGGC  
 AGCTTCTGTAAGAAAGGCTGAGGATGAACAGGAAGAGGGGCAGCCTGTGAGGATGGCCACCTTTCCAGGC  
 CCAGGGTCTCTCAGCCAGAGCCACCAGCCGGCCTTTCTCCAGCTCTGAAGAAGATGCCCTCATT  
 CCTTGAGAAGCGACCTCCCCTTCTGCTGATTCAAAGGACTTCAGCACCTCCATTCTAAGCAGGAAAA  
 ACTTTTGAAGTGGCTGGAGACAGCCTTTCTGGAGTGAAGCAGACGCTGGTCCAGGCAACCGATGACTTC  
 AATCAAAACCGCAAAATCAGCCAGGGGACCTTTGCTGACGTCTACAGAGGACACAGGCACGGGAAGCCAT  
 TCGTCTTCAAGAAGCTCAGAGAGACAGCCTGTTCAAGTCCAGGATCAATCGAAAGATTCTCCAGGCAGA  
 GTTGACAGATTTGTCTTAGATGCTGCCACCCCAATGTTTCCCTACAGGACAGACTGCAGGGTCAAGGCT  
 TTTACAGCTTACCTACCCCTACATGGCAATGGTTCCTACAGGACAGACTGCAGGGTCAAGGCTGGCT  
 CGGACCCCTCCCTGGCCCCAGCGTGTGAGCATCTGCTCAGGGTGTCTGTGCCGTCGAGTACCTGCA  
 TGGTCTGGAGATCATCCACAGCAACGTCAAGAGCTTAATGTCTTGTGGACAAAATCTCACCCCCAAA  
 CTTGCTCACCCAATGGCTCATCTGTGCTCCTGTCAACAAAAGGTCAAAAATACCCATGATGAAGACTCACC  
 TGCTCCGGACGTGAGCCGCGTATCTGCCAGAGGATTTTCATCCGGTGGGGCAGCTGACAAAAGCAGTGGGA  
 CATCTTACAGCTGTGGAATAGTGTGGCCGAGGTCCTCACGGGCATCCCTGCAATGGATAACAACCGAAGC  
 CCGGTTTACCTGAAGACTTACTCCTCAGTGATATTCCAAGCAGCACCGCCTCGCTCTGCTCCAGGAAGA  
 CGGGCGTGGAGAACGTGATGGCAAAGGAGATCTGCCAGAAGTACCTGGAGAAGGGCGCAGGGAGGCTTCC  
 GGAGGACTGCGCCGAGGCCCTGGCCACGGCTGCCTGCCTGTGCCTGCGGAGGCGTAACACCAGCCTGCAG  
 GAGGTGTGGCTCTGTGGCTGCTGTGGAAGAGCGGCTCCGAGGTGGGAGACGTTGCTCCCTTGGAGTG  
 GGCTTTCTGAGGGTACAGGCTCTTCTTCAACACCCAGAGGAAACAGACGACGTTGACAATTCCAGCCT  
 TGATGCCTCCTCCTCATGAGTGTGGCACCTGGGAGGGGCTGCCACCCACTTCTCCCCACAGAGAAT  
 GGGGAAGGAAGGCTGCGGTCATCGTGGGAAGGGAGGCTGACTCCTCCTGAGGCTGTGTTGGCCTGG  
 AGCCTCCCAGGATGTTACAGAACTTCGTGGCAAATTGAGATCAATGAGGCCAAAAGGAAACTGATGGA  
 GAATATCTGCTCTACAAAGAGGAAAAAGTGGACAGCATTGAGCTCTTTGGCCCC

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG218437 representing NM\_001570  
 Red=Cloning site Green=Tags(s)

MACYIYQLPSWVLDLRCRNDALSEWDMEFASYVITDLTQLRKIKSMERVQGVSIITRELLWWWGMRQAT  
 VQQLVDLLCRLELYRAAQIILNWKPAPEIRCIPIAFPDSVKPEKPLAASVRKAEDQEQQPVRMATFPG  
 PGSSPARAHQPAFLQPPEEDAPHSRLSDLPSSDSKDFSTSIQKQEKLLSLAGDSLFWSEADVQATDDF  
 NQNRKISQGTFAVYRGRHRHGKPFVFKKLRETACSSPGSIERFFQAEIQICLRCCHPNVLPVLFCAARQ  
 FHSFIYPYMANGLQDRLQGGSDPLPWPQRVSI C SGLLCAVEYLHGLEIHSNVKSSNVLLDQNLTPK  
 LAHPMAHLCPVNRKSKYMMKTHLLRRTSAAYLPEDFIRVGQLTKRVDIFSCGIVLAEVLTGIPAMDNRS  
 PVYKDLLLSDIPSSTASLCSRKTGVENVMAKEICQKYLEKAGRLPEDCAEALATAACLCLRRRNTSLQ  
 EVCGSVAAVEERLRGRETLLPWSGLSEGTGSSNTPEETDDVDNSSLDASSMSVAPWAGATPLLPTE  
 GEGRLRVIVGREADSSSEACVGLPEPPQDVTETSWQIEINEAKRKL MENILLYKEEKVDSIELFGP

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001570.4</a>
<b>RefSeq Size:</b>	3469 bp
<b>RefSeq ORF:</b>	1878 bp
<b>Locus ID:</b>	3656
<b>UniProt ID:</b>	<a href="#">O43187</a>
<b>Cytogenetics:</b>	3p25.3
<b>Domains:</b>	DEATH, pkinase
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Apoptosis, Neurotrophin signaling pathway
<b>Gene Summary:</b>	<p>IRAK2 encodes the interleukin-1 receptor-associated kinase 2, one of two putative serine/threonine kinases that become associated with the interleukin-1 receptor (IL1R) upon stimulation. IRAK2 is reported to participate in the IL1-induced upregulation of NF-kappaB. [provided by RefSeq, Jul 2008]</p>