

## Product datasheet for **RG227439**

### **IRAKM (IRAK3) (NM\_001142523) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IRAKM (IRAK3) (NM_001142523) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRAK3
Synonyms:	ASRT5; IRAKM
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG227439 representing NM\_001142523  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGGAACTGTGGGGCCCGGGCGGCTGTGGCGCACACGCTGCTGTTTCGACCTGCCGCCCGCGC  
 TGCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGGCGCGCTGGGCTGGCGCGGCCTGGGAGCAGT  
 GTTGAGTCTTCAGAGAAGATTATCAGGAAGGTGGATTTCCAAATATATTATTCAAGGAAACAGCCAAT  
 GTCACCGTGGATAATGTTCTTATCCTGAACATAATGAAAAAGGAATACTGCTTAAATCTCCATCAGCT  
 TTCAAAATATCATAGAAGGAAGTAAATTTCCACAAAGACTTCTAATTGGAGAAGGAGAGATTTTGA  
 GGTATACAGAGTGGAGATTCAAAACCTAACATATGCTGTCAAATTATTTAAACAGGAGAAAAAATGCAG  
 TGTAAGAAGCATTGGAAGAGTTTTTATCTGAGCTTGAAGTTTTACTACTGTTTCATACCCAAACATAC  
 TAGAGTTGGCTGCATATTTACAGAGACTGAGAAGTCTGTCTGATTTATCCATACATGAGAAATGGAAC  
 ACTTTTTGACAGATTGCAGTGTGTAGGTGACACGGCCCACTCCCTTGGCACATTCGAATCGGTATATTA  
 ATAGGAATATCCAAAGCCATTCCTACCTGCACAACGTTCAACCATGCTCGGTACTCTGTGGCAGTATAT  
 CAAGTGCAAACATCCTTTTGGATGATCAGTTTCAACCCAAACTAACTGATTTTGGCATGGCACACTTCCG  
 GTCCACCTAGAACATCAGAGTTGTACCATAAATATGACCAGCAGCAGCAGTAAACATCTGTGGTACATG  
 CCAGAAGAGTACATCAGACAGGGGAACTTTCCATTAACACAGATGTCTACAGCTTTGGAATTGTAATAA  
 TGGAAAGTTCTAACAGGATGTAGAGTAGTGTAGATGATCCAAAACATATCCAGCTGCGGGATCTCCTTAG  
 AGAATTGATGGAGAAGAGAGGCCCTGGATTATGTCTCTCATTTCTAGATAAGAAAGTGCCTCCCTGCCCT  
 CGGAATTTCTCTGCCAAGCTCTTCTGTTGGCAGGCCGGTGTGCTGCAACGCGGGCAAAGTTAAGACCAT  
 CAATGGATGAAGTTTTAAATACTTTGAAAGTACTCAAGCCAGCTGTATTTTGTGAAGATCCTCCAC  
 ATCACTAAAGTCCTTCAGGTGTCCTTCTCCTCTATTCTGGAGAATGTACCAAGTATTCAGTGGAAAGT  
 GATGAAAGCCAGAATAACAATTTACTACCTTCTGATGAAGGCCTGAGGATAGACAGAATGACTCAGAAAA  
 CTCCTTTTGAATGCAGCCAGTCTGAGGTTATGTTTCTGAGCTTGGACAAAAAGCCAGAGAGCAAGAGAAA  
 TGAGGAAGCTTGCAACATGCCAGTTCTTCTTGTGAAGAAAGTTGGTTCCCAAAGTATATAGTTCCATCC  
 CAGGACTTAAGGCCCTATAAGGTAATATAGATCCTTCTCAGAAGCTCCAGGGCATTCTTGACAGGAGCA  
 GGCCAGTGAGAGCAGCTGTTCTCCAAATTTCTGGGATGAATATGAACAGTACAAAAAAGAA

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG227439 representing NM\_001142523  
 Red=Cloning site Green=Tags(s)

MAGNCGARGALSAHTLLFDLPPALLGELCAVLDSCDGALGWRGLGAVLSPSEKSYQEGGFNILFKETAN  
 VTVDNVLIPHEKNEKILLKSSISFQNIIEGTRNFHKDFLIGEGEIFEVYRVEIQNLTYAVLKFQEKMQ  
 CKKHWRFLSELEVLLLFHHPNILELAAYFTEKFCLIPYMRNGTLFDRLQCVGDTAPLPHWIRIGIL  
 IGISKAIHYLHNVPSCVICGSISSANILLDDQFQPKLTDFAMAHFRSHLEHQSCINMTSSSSKHLWYM  
 PEEYIRQGLSIKTDVYSFGIVIMEVLGCRVVLDDPKHIQLRDLLRELMEKRGLDLSFLDKKVPVPCP  
 RNFSAKLFCLAGRCAATRAKLRPSMDEVLNTLESTQASLYFAEDPPTSLKSFRCPSPLFLENVPSIPVED  
 DESQNNLLPSDEGLRIDRMTQKTPFECSQSEVMFLSLDKKPESKRNEEACNMPSSSCEESWFPKYIVPS  
 QDLRPYKVNIDPSEAPGHSCSRPVESSCKFSWDEYEQYKKE

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

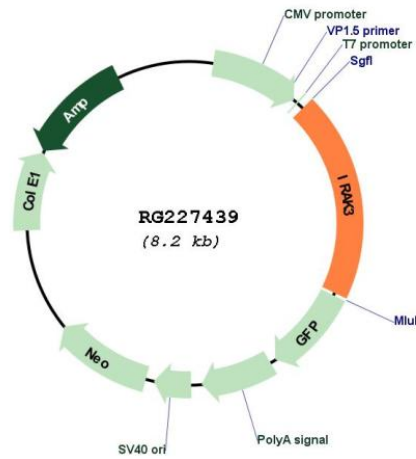
Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



<b>ACCN:</b>	NM_001142523
<b>ORF Size:</b>	1605 bp
<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<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_001142523.2</a>
<b>RefSeq Size:</b>	8168 bp
<b>RefSeq ORF:</b>	1608 bp
<b>Locus ID:</b>	11213
<b>UniProt ID:</b>	<a href="#">Q9Y616</a>
<b>Cytogenetics:</b>	12q14.3
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	Apoptosis, Neurotrophin signaling pathway
<b>Gene Summary:</b>	This gene encodes a member of the interleukin-1 receptor-associated kinase protein family. Members of this family are essential components of the Toll/IL-R immune signal transduction pathways. This protein is primarily expressed in monocytes and macrophages and functions as a negative regulator of Toll-like receptor signaling. Mutations in this gene are associated with a susceptibility to asthma. Alternate splicing results in multiple transcript variants. [provided by RefSeq, May 2010]