

## Product datasheet for **RG209245**

### **IRAKM (IRAK3) (NM\_007199) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	IRAKM (IRAK3) (NM_007199) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IRAKM
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:**

>RG209245 representing NM\_007199  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGCGGGAACTGTGGGCCCCGGCGCGCTGTGCGCGCACACGCTGCTGTTTCACCTGCCGCCCGCGC  
 TGCTCGGAGAGCTCTGCGCTGTTCTGGACAGCTGCGACGCGCGCTGGGCTGGCGCGCCTGGCAGAGAG  
 ACTTTCAAGCAGCTGGCTGGATGTTCTGTCATATTGAAAAGTATGTAGACCAAGGTAAGGTAACAAGA  
 GAATTACTTTGGTCTGGGCACAGAAAAACAAGACCATCGGTGACCTTTTACAGGTCCTCCAGGAGATGG  
 GACATCGTCGAGCTATTCATTTAATTACAACTATGGAGCAGTGTGAGTCCTTCAGAGAAGAGTTATCA  
 GGAAGGTGGATTCCAATATATTATTCAAGGAAACAGCCAATGTCACCGTGGATAATGTTCTTATTCT  
 GAACATAATGAAAAGGAGTACTGCTTAAATCTCCATCAGCTTCAAATATCATAGAAGGAACTAGAA  
 ATTTCCACAAAGACTTCCTAATTGGAGAAGGAGAGATTTTGGAGTATACAGAGTGGAGATCAAACCT  
 AACATATGCTGTCAAATATTTAAACAGGAGAAAAAATGCAGTGAAGAAGCATTGGAAGAGGTTTTTA  
 TCTGAGCTTGAAGTTTTACTACTGTTTCATCACCCAAACATACTAGAGTTGGCTGCATATTTTACAGAGA  
 CTGAGAAGTTCGTCTGATTTATCCATACATGAGAAATGGAACACTTTTTGACAGATTGCAGTGTGATGG  
 TGACACGGCCCCACTCCCTTGGCACATTCGAATCGGTATATTAATAGGAATATCCAAAGCCATTCCTAC  
 CTGCACAACGTTCAACCATGCTCGGTACTGTGGCAGTATATCAAGTCAAACATCCTTTTGGATGATC  
 AGTTTTCAACCCAACTAACTGATTTTGCATGGCACACTCCGGTCCCACCTAGAATCAGAGTTGTAC  
 CATAAATATGACCAGCAGCAGCAGTAAACATCTGTGGTACATGCCAGAAGAGTACATCAGACAGGGGAAA  
 CTTTCCATTAACAGATGTCTACAGCTTTGGAATTGTAATAATGGAAGTCTAACAGGATGTAGAGTAG  
 TGTTAGATGATCCAAACATATCCAGCTGCGGGATCCTCTAGAGAATTGATGGAGAAGAGAGCCCTGGA  
 TTCATGTCTCTCATTCTAGATAAGAAAGTGCCCTCCCTGCCCTCGGAATTTCTCTGCCAAGCTCTCTGT  
 TTGGCAGGCCGGTGTGCTGCAACGCGGGCAAAGTTAAGACCATCAATGGATGAAGTTTTAAATACTCTTG  
 AAAGTACTCAAGCCAGCTTGATTTTGTGAAGATCCTCCACATCACTAAAGTCTTCAGGTGTCCTTC  
 TCCTCTATTCTGGAGAATGTACCAAGTATCCAGTGAAGATGATGAAAGCCAGAATAACAATTTACTA  
 CCTTCTGATGAAGGCTGAGGATAGACAGAATGACTCAGAAAACCTTTTTGAATGCAGCCAGTCTGAGG  
 TTATGTTTCTGAGCTTGGACAAAAGCCAGAGAGCAAGAGAAATGAGGAAGCTTGAACATGCCAGTTC  
 TTCTTGTGAAGAAAGTTGGTTCCCAAAGTATATAGTTCCATCCCAGGACTTAAGGCCCTATAAGGTAAT  
 ATAGATCCTTCTCAGAAGCTCCAGGGCATTCTTGCAGGAGCAGGCCAGTGGAGAGCAGCTTCTCTCCA  
 AATTTTCTGGGATGAATATGAACAGTACAAAAAGAA

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG209245 representing NM\_007199  
 Red=Cloning site Green=Tags(s)

MAGNCGARGALSAHTLLFDLPPALLGELCAVLDSCDGALGWRGLAERLSSSWLDVRHIEKYVDQKSGTR  
 ELLWSWAQKNKTIGDLLQVLQEMGHRRAIHLITNYGAVLSPSEKSYQEGGFPNILFKETANVTVDNLVLP  
 EHNEKGVLLKSSISFQNIIEGTRNFHKDFLIGEGEIFEVYRVEIQNLTYAVKLFKQEKMKQCKKHWKRF  
 SELEVLLL FHPNILELAAYFTETEKFCLIPYMRNGTLFDRLQCVGDTAPLPWHIRIGILIGISKAIHY  
 LHNVPQCSVICGSISSANILLDDQFQPKLTFAMAHFRSHLEHQCTINMTSSSSKHLWYMPEEYIRQGK  
 LSIKTDVYSFGIVIMEVLTGCRVLLDDPKHIQLRDLRELMEKRGLDSCLSFLDKKVPVPCPRNFSAKLFC  
 LAGRCAATRACLKRPMSDEVLTNTLESTQASLYFAEDPPTSLKSFRCPSPLFLENVPSIPVEDDESQNNLL  
 PSDEGLRIDRMTQKTPFECSQSEVMFLSLDKKPESKRNEEACNMPSSSCEESWFPKYIIVPSQDLRPYKVN  
 IDPSEAPGHSCRSPVSESSSKFSWDEYEYQYKKE

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_007199

**ORF Size:** 1788 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\\_007199.1](#), [NP\\_009130.1](#)

**RefSeq Size:** 2288 bp

**RefSeq ORF:** 1791 bp

**Locus ID:** 11213

**UniProt ID:** [Q9Y616](#)

**Cytogenetics:** 12q14.3

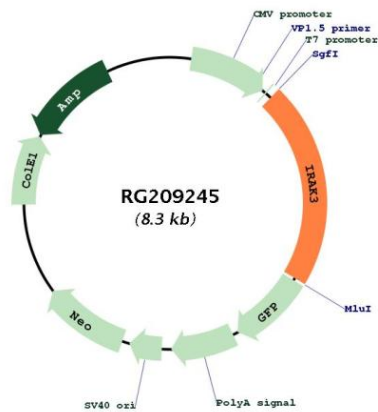
**Domains:** DEATH, pkinase, TyrKc, S\_TKc

**Protein Families:** Druggable Genome, Protein Kinase

**Protein Pathways:** Apoptosis, Neurotrophin signaling pathway

**Gene Summary:** 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]

**Product images:**



Circular map for RG209245