

## Product datasheet for **RC221544A1V**

### Human IRAK (IRAK1) (NM\_001569) AAV Particle

#### Product data:

|                           |                                             |
|---------------------------|---------------------------------------------|
| Product Type:             | AAV Particles                               |
| Product Name:             | Human IRAK (IRAK1) (NM_001569) AAV Particle |
| Tag:                      | Myc-DDK                                     |
| Symbol:                   | IRAK1                                       |
| Synonyms:                 | IRAK; pelle                                 |
| Mammalian Cell Selection: | None                                        |
| Vector:                   | pAAV-AC-Myc-DDK (PS100089)                  |



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## ORF Nucleotide Sequence:

>RC221544 representing NM\_001569  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCGGGGGGCCGGGCCCGGGGAGCCCGCAGCCCCCGGCCAGCACTTCTGTACGAGGTGCCGC  
 CCTGGGTCAATGTGCCGCTTCTACAAAGTGATGGACGCCCTGGAGCCCGCCGACTGGTGCCAGTTCGCCGC  
 CCTGATCGTGCACGACAGACCGAGCTGCGGCTGTGCGAGCGCTCCGGGCAGCGCACGGCCAGCGTCCTG  
 TGGCCCTGGATCAACGCAACGCCCGTGTGGCCGACCTCGTGACATCCTCACGCACCTGCAGCTGCTCC  
 GTGCGCGGGACATCATCACAGCCTGGCACCCCTCCGCCCGCTTCCGTCCCCAGGCACCACTGCCCGAG  
 GCCCAGCAGCATCCCTGCACCCGCCGAGGCCGAGGCTGGAGCCCCGGAAGTTGCCATCCTCAGCCTCC  
 ACCTTCCTCTCCCGAGCTTTTCCAGGCTCCAGACCCATTAGGGCCTGAGCTCGGCCTGGTCCCAAGCC  
 CTGCTTCCCTGTGGCTCCACCGCCATCTCCAGCCCCCTTCTTCTACCAAGCCAGGCCAGAGAGCTCAGT  
 GTCCCTCCTGCAGGGAGCCCCGCCCTTTCCGTTTTGCTGGCCCCCTCTGTGAGATTCCCGGGGCACCCAC  
 AACTTCTCGGAGGAGCTCAAGATCGGGGAGGGTGGCTTTGGGTGCGTGTACCGGGCGGTGATGAGGAACA  
 CGGTGTATGCTGTGAAGAGGCTGAAGGAGAACGCTGACCTGGAGTGGACTGCAGTGAAGCAGAGCTTCT  
 GACCGAGGTGGAGCAGCTGTCCAGGTTTCGTACCCAAACATTGTGGACTTTGCTGGCTACTGTGCTCAG  
 AACGGCTTCTACTGCCTGGTGTACGGCTTCTGCCAACGGCTCCCTGGAGGACCGTCTCCACTGCCAGA  
 CCCAGGCTGCCACCTCTCTCTGGCCTCAGCAGTGGACATCCTTCTGGGTACAGCCCGGGAATTCA  
 GTTCTACATCAGGACAGCCCCAGCCTCATCCATGGAGACATCAAGAGTTCAACGTCTTCTGGATGAG  
 AGGTGACACCAAGCTGGGAGACTTTGGCCTGGCCCGGTTAGCCGCTTTGCCGGGTCCAGCCCCAGCC  
 AGAGCAGCATGGTGGCCCGACACAGACAGTCCGGGGCACCCCTGGCCTACCTGCCCGAGGAGTACATCAA  
 GACGGGAAGGCTGGCTGTGGACACGGACACCTTCAGCTTTGGGTGGTAGTGCTAGAGACCTTGGCTGGT  
 CAGAGGGCTGTGAAGACGCACGGTGCCAGGACCAAGTATCTGAAAGACCTGGTGAAGAGGAGGCTGAGG  
 AGGCTGGAGTGGCTTTGAGAAGCACCCAGAGCACACTGCAAGCAGGTCTGGCTGCAGATGCCTGGCTGC  
 TCCCATCGCCATGCAGATCTACAAGAAGCACCTGGACCCAGGCCCGGGCCCTGCCACCTGAGCTGGGC  
 CTGGGCCTGGGCCAGCTGGCCTGCTGCTGCCTGCACCGCCGGGCCAAAAGGAGGCTCCTATGACCCAGG  
 TGTACGAGAGGCTAGAGAAGCTGCAGGCAGTGGTGGCGGGGTGCCGGGCATTGAGAGGCCGCCAGCTG  
 CATCCCCCTTCCCGCAGGAGAACTCCTACGTGTCCAGCACTGGCAGAGCCACAGTGGGGCTGCTCCA  
 TGGCAGCCCCCTGGCAGGCCATCAGGAGCCAGTCCCAGGCAGCAGAGCAGCTGCAGAGAGGCCCAACC  
 AGCCCGTGGAGAGTGACGAGAGCCTAGCGGCCCTCTGCTGCCCTGCGCTCCTGGCACTTGACTCCAAG  
 CTGCCCTCTGGACCCAGCACCCCTCAGGAGGGCCGGCTGTCTCAGGGGGACACGGCAGGAGAATCGAGC  
 TGGGGGAGTGGCCAGGATCCCGGCCACAGCCGTGGAAGGACTGGCCCTTGGCAGCTCTGCATCATCGT  
 CGTCAGAGCCACCGCAGATTATCATCAACCCTGCCCGACAGAAGATGGTCCAGAAGCTGGCCCTGTACGA  
 GGATGGGGCCCTGGACAGCCTGCAGCTGCTGTCGTCCAGCTCCCTCCCAGGCTTGGGCCTGGAACAGGAC  
 AGGCAGGGGCCGAAGAAAGTGATGAATTCAGAGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

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| <b>Protein Sequence:</b> | <p>&gt;RC221544 representing NM_001569<br/> <span style="color: red;">Red</span>=Cloning site <span style="color: green;">Green</span>=Tags(s)</p> <p>MAGGPGGPEPAAPGAQHFLYEVPWVMCRFYKVMDALEPADWCQFAALIVRDQTELRLCERSGQRTASVL<br/> WPWINRNARVADLVHILTHLQLLRARDIITAWHPPAPLPSPGTTAPRPSSIPAPAEAEAWSPRKLPSSAS<br/> TFLSPAFPQSQTHSGPELGLVSPASLWPPPPSPAPSSTKPGPESSVSLLQGARPSPFCWPLCEISRGT<br/> NFSEELKIGEGGFGCVYRAVMRNTVYAVKRLKENADLEWTAVKQSFLTEVEQLSRFRHPNIVDFAGYCAQ<br/> NGFYCLVYGFLPNGSLEDRLHCQTQACPPLSWPQRLDILLGTARAIQFLHQDSPSLIHGDIKSSNVLLDE<br/> RLTPKLGDFGLARFSRFAGSSPSQSSMVARTQTVRGTLAYLPEEYIKTGRLAVD TDFSFGVVVLETLAG<br/> QRAVKTHGARTKYLKDLVEEEAEEAGVALRSTQSTLQAGLAADAWAAPIAMQIYKKHLDPRPGPCPELG<br/> LGLGQLACCLHRRARRPPMTQVYERLEKLQAVVAGVPGHLEAASCIPPSPQENSYSSTGRAHSGAAP<br/> WQPLAAPSGASQAEEQLQRGPNQPVESDESLGGLSAALRSWHLTPSCPLDPAPLREAGCPQGD TAGESS<br/> WGSGPGSRPTAVEGLALGSSASSSEPPQIIINPARQKMVQKLALYEDGALDSLQLSSSLPGLGLEQD<br/> RQGPEESDEFQSTRTRPLEQKLI SEEDLAANDILDYKDDDDKV*</p> <p><span style="color: red;">TR</span><span style="color: green;">TRPLEQKLI SEEDLAANDILDYKDDDDKV</span></p> |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Serotype:</b>         | AAV-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ACCN:</b>             | NM_001569                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ORF Size:</b>         | 2136 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Buffer:</b>           | PBS with 0.001% Pluronic F8354                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Stability:</b>        | AAV is stable for 1 year when stored at -80°C (long-term storage) or 2-3 weeks when stored at -20°C (short-term storage). Thaw the vial of AAV on ice prior to use and keep it on ice during the experiment. Thawed AAV can be stored at 4°C for 1-2 weeks. Whenever possible, particles should be aliquoted into single use portions to avoid repeated freeze/thaw cycles. Please aliquot at least 10ul per tube and use low protein binding tubes to avoid loss of virus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>RefSeq:</b>           | <u><a href="#">NM_001569.3</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq Size:</b>      | 3589 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>       | 2139 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>         | 3654                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>UniProt ID:</b>       | <u><a href="#">P51617</a></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>     | Xq28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>               | 76.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |