

## Product datasheet for **RR209089**

### H2afy2 (NM\_001135807) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** H2afy2 (NM\_001135807) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** H2afy2  
**Synonyms:** RGD1561371  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR209089 representing NM\_001135807  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGTCAGGCCGGAGCGGGAAGAAGAAAATGTCTAAGCTGTCTCGGTGAGCCAGGGCCGGGTGTCATCTTTC  
 CAGTAGGGCGGTTGATGCGCTACCTGAAGAAAGGAACTTCAAGTACCGGATCAGCGTGGGTGCTCCAGT  
 CTACATGGCTGCAGTCATTGAGTACCTGGCAGCGGAAATCCTAGAGTTGGCTGGGAACGCTGCGAGGGAC  
 AACAAAGAAGGCCCGGATAGCCCCAGACACATCCTGCTGGCCGTTGCCAACGATGAGGAGCTCAACCAGT  
 TGCTGAAAGGAGTGACCATCGCCAGTGGGGGTGCTTGGCCAGAATTCACCCGAAGTGTGGCCAAAAA  
 GCGAGGGACCAAAGGCAAGTCAGAAACCATCCTCTCCCCACCCAGAGAAAAGAGGAAGGAAGGCCGCA  
 TCAGGCAAGAAGGGGGTAAGAAATCCAAGGCCACTAAGCCGGGACGTCCAAGAAGTCCAAGCCAAGG  
 ACAGCGATAAAGAAGGAACATCGAATCCACCTCAGAAGACGGGCCGGGGATGGCTTTACCATCCTGTC  
 TTCGAAGAGCCTCGTTCTGGGGCAGAAGCTGTCCCTGACCCAGAGTGACATCAGCCACATCGGCTCCATG  
 AGGGTGGAGGGCATCGTCCACCAACCACAGCCGAAATCGACCTCAAGGAAGAGATAGGTAAGCCTTGG  
 AAAAGGCCGGGGTAAAGAGTTCTTGGAAACAGTAAAGGAGCTTCGCAAGTCCCAAGGCCCTTTGGAAGT  
 TGCCGAAGCTGCCGTGAGCAATCCAGTGGACTCGCAGCAAGTTTGTATCCACTGTACATCCCCAG  
 TGGGGCTCCGACAAATGTGAAGAACAGCTGGAAGAGACCATCAAAAACCTGCTGTCCGACGCCGAGGACA  
 AGAAGCTTAAATCTGTCGCTTCCACCGTTCCCAAGTGGCAGAACTGCTTTCCCAAACAGACGCCCGC  
 CCAAGTGACCCTCAAGGCCATCTCGGCCACTTCGACGACTCGAGCTCATCCTCGCTGAAGAATGTGTAC  
 TTCCTGCTCTTCGACAGCGAGAGCATTGGCATCTACGTGCAGGAGATGGCCAACTGGACACCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR209089 representing NM\_001135807  
 Red=Cloning site Green=Tags(s)

MSGRSgKKKMSKLSRSARAGVIFPVGRLMRYLKKGTfKYRISVGAPVYMAAVIEYLAAEILELAGNAARD  
 NKKARIAPRHILLAVANDEELNQLLKGVTIASGGVLPRIHPELLAKKRGTGKGSSETILSPPPEKRGRKAA  
 SGKKGGKKSKATKPRTSKSSKAKDSDKEGTSNSTSEDGPGDGFTILSSKSLVLGQKLSLTQSDISHIGSM  
 RVEGIVHPTTAEIDLKEEIGKALEKAGGKEFLETVKELRKSQGPLEVAEAAVSQSSGLAAKFVIHCHIPQ  
 WGSdkCEEQLEETIKNCLSAEDKCLKSVAFPPFSGRNCfPKQTAQVTLKAISAHFDDSSSSSLKNVY  
 FLLFDSESIgIYVQEMAKLDTK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

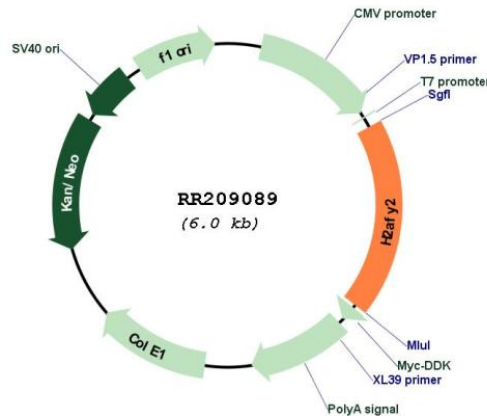
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001135807

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ORF Size:</b>              | 1116 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_001135807.1</a> , <a href="#">NP_001129279.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 1983 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 1119 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 361844                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 20q11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>MW:</b>                    | 40.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |