

## Product datasheet for **RG206013**

### **SAMHD1 (NM\_015474) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SAMHD1 (NM_015474) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SAMHD1
Synonyms:	CHBL2; DCIP; HDDC1; hSAMHD1; MOP-5; SBBI88
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG206013 representing NM\_015474  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCAGCGAGCCGATTCCGAGCAGCCCTCCAAGCGTCCCCGTTGCGATGACAGCCCGAGAACCCCTCAA  
 ACACCCCTTCCGAGAGGCAGACTGGTCCCGGGCCTGGAATCCATCCGACTACAAGACATGGGGTCC  
 GGAGCAGGTGTGCTCCTTCTCAGGCGCGTGGCTTTGAAGAGCCGGTGTGCTGAAGAACATCCGAGAA  
 AATGAAATCACAGGCGCATTACTGCCTTGTCTTGATGAGTCTCGTTTTGAAAATCTTGGAGTAAGTCTCT  
 TGGGGGAGAGGAAGAAGCTGCTTAGTTATATCCAGCGATTGGTTCAAATCCACGTTGATACAATGAAGGT  
 AATTAATGATCCTATCCATGGCCACATTGAGCTCCACCCTCTCCTCGTCCGAATCATTGATACACCTCAA  
 TTTCAACGCTTCGATACATCAAACAGCTGGGAGGTGGTACTATGTTTTCCAGGAGCTTCGCACAATC  
 GATTTGAGCATAGTCTAGGGTGGGTATCTAGCAGGATGTCTAGTTCACGCACTGGGTGAAAAACAACC  
 AGAGCTGCAGATAAGTGAACGAGATGTTCTCTGTGTTCCAGATTGCTGGACTTTGTCATGATCTCGGTCAT  
 GGCCATTTTCTCACATGTTTGTGAGCAGATTTATTCCACTTGTCTGCCCCGGAGGTGAAATGGACGCATG  
 AACAAAGGCTCAGTTATGATGTTTGGACACCTTATTAATCTAATGGAATTAAGCCTGTGATGGAACAATA  
 TGGTCTCATCCCTGAAGAAGATATTTGCTTTATAAAGGAACAAATGTAGGACCCTTGAATCACCTGTA  
 GAAGATTCATTGTGGCCATATAAAGGGCGTCTGAAAACAAAAGCTTCTTTATGAGATAGTATCTAATA  
 AAAGAAATGGCATTGATGTGGACAAATGGGATTATTTGCCAGGGACTGCCATCATCTTGGAAATCCAAAA  
 TAATTTTGATTACAAGCGCTTTATTAAGTTTGGCCGTGTCTGTGAAGTAGACAATGAGTTGCGTATTTGT  
 GCTAGAGATAAGGAAGTTGAAAATCTGTATGACATGTTCCACACTCGCAACTCTTACACCGTAGAGCTT  
 ATCAACACAAAAGTTGGCAACATTATTGATACAATGATTACAGATGCTTTTCTCAAAGCAGATGACTCAT  
 AGAGATTACAGGTGCTGGAGAAAAAAGTATCGCATTCTACAGCAATTGACGACATGGAAGCCTATACT  
 AAGCTGACAGATAACATTTTTCTGGAGATTTTATACTCTACTGATCCCAAATTGAAAAGCAGCAGAGAGA  
 TTTTAAAAACAAATGAATACCGTAACTATTCAAGTATGTGGTGAGACGCAGCCAAACAGGACAAAATAAA  
 GATTAAGGGGAGGACTATGAATCTCTTCCAAAAGAGGTTGCCAGTGCTAAACCCAAAGTATTGCTAGAC  
 GTGAAACTGAAGGCTGAAGATTTTATAGTGGATGTTATCAACATGGATTATGGAATGCAAGAAAAGAAATC  
 CAATTGATCATGTAGCTTCTATTGTAAGACTGCCCCCAACAGAGCAATCAGGATTAATAAAACCAGGT  
 TTCACAACTTCTGCCAGAGAAAATTTGTAGAGCAGCTGATTCGAGTATATTGTAAGAGGTGGACAGAAAAG  
 AGTTTGTATGCCCAAGACAATATTTTGTTCAGTGGTGTGCAGACAGAAATTTCCACCAAGCCGAGGATG  
 GCGATGTTATAGCCCACTCATAACACCTCAAAAAAGGAATGGAACGACAGTACTTCAGTCCAAAATCC  
 AACTCGCCTCCGAGAAGCATCCAAAAGCAGAGTCCAGCTTTTTAAAGATGACCCAATG

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG206013 representing NM\_015474  
 Red=Cloning site Green=Tags(s)

MQRADSEQPSKRPRCDDSPRTPSNTPSAEADWSPGLELHPDYKTWGPEQVCSFLRRGGFEFVLLKNIRE  
 NEITGALLPCLDESRFENLVSSSLGERKKLLSYIQRLVQIHVDTMKVINDPIHGHIELHPLLRIIDTPQ  
 FQRLRYIKQLGGGYVFPGASHNRFHSLGVGYLAGCLVHALGEKQPELQISERDVLVQIAGLCHDLGH  
 GPFSHMFDGRFIPLARPEVKWTHEQGSVMMFEHLINSNGIKPVMEQYGLIPEEDICFIKEQIVGPLESV  
 EDLWPKYGRPENKSFLYEIVSNKRNIDVDKWDYFARDCHHLGIQNNFDYKRFIKFARVCEVDNELRIC  
 ARDKEVGNLYDMFHTRNSLHRRAYQHKVGNIIDTMITDAFLKADDYIEITGAGEKKYRISTAIIDMEAYT  
 KLTDNIFLEILYSTDPKLDAREILKQIEYRNLFKYVGETQPTGQIKIKREDYELSPKEVASAKPKVLLD  
 VKLKAEDFIVDVINMDYGMQEKNPIDHVSFYCKTAPNRAIRITKNQVSQLPEKFEVQLIRVYCKKVDK  
 SLYAARQYFVQWCADRNFTKPDQGDVIAPLITPQKKEWNDSTSVQNPTRLREASKSRVQLFKDDPM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_015474

**ORF Size:** 1878 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\\_015474.2](#), [NP\\_056289.2](#)

**RefSeq Size:** 2701 bp

**RefSeq ORF:** 1881 bp

**Locus ID:** 25939

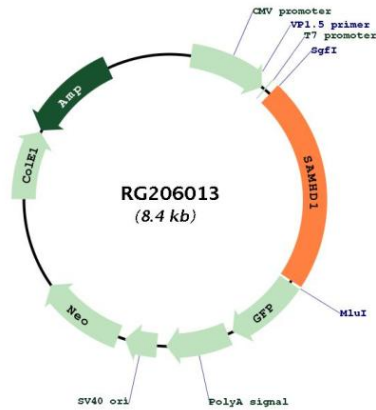
**UniProt ID:** [Q9Y3Z3](#)

**Cytogenetics:** 20q11.23

**Domains:** SAM, HD

**Gene Summary:** This gene may play a role in regulation of the innate immune response. The encoded protein is upregulated in response to viral infection and may be involved in mediation of tumor necrosis factor-alpha proinflammatory responses. Mutations in this gene have been associated with Aicardi-Goutieres syndrome. [provided by RefSeq, Mar 2010]

**Product images:**



Circular map for RG206013