

## Product datasheet for **RR212889**

### **Hrh1 (NM\_017018) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Hrh1 (NM_017018) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hrh1
Synonyms:	Hisr
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR212889 representing NM\_017018  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGAGCTTTGCCAATACCTCCTCTACCTCGAAGACAAGATGTGTGAGGGGAACAGGACAGCCATGGCCA  
 GCCCTCAGCTGCTGCCCTGGTGGTGGTTCTCAGTAGTATCTCCCTGGTACAGTGGGCCTCAACCTGCT  
 GGTGCTGTACGCTGTGCACAGTGAACGCAAGCTACACACCGTGGGCAACCTATACATTGTGACGCTGTCT  
 GTGGCAGACCTGATTGTAGGGGAGTTGTGATGCCATGAACATCCTCTATCTCATGACTAAGTGGT  
 CCTTGGGCGCCCTCTGCCTCTTTGGCTTTCTATGGATTATGTGGCCAGCACAGCATCCATCTTTAG  
 CGTCTTCATCCTGTGATTGATCGCTACCCTCCGTCCAGCAACCCCTCCGGTACCTGAGGTACCGAACC  
 AAGACCCGGGCTCCGCTACCATCCTGGGGCCTGGTTCTTCTCCTTCTGTGGTTATACCCATACTTG  
 GCTGGCATCACTTCATGCCCCAGCCCCAGAGCTTCGGGAAGACAAGTGTGAGACAGACTTCTACAATGT  
 CACTTGGTTCAAGATCATGACTGCTATTATTAACCTTCTACCTCCCCTTTGCTTATGCTGTGGTCTAT  
 GTGAAGATCTACAAGGCTGTGCGGCGACTGTGACAGCCGCGAGCTCACCAACGGGTCCCTCCCTTCT  
 TTTCAAGACTCAAGCTGAGGTCAGACGATACCAAGGAAGGTGCCAAGAAACCTGGGAGAGAGTCTCCCTG  
 GGGGTTCTGAAAAGGCCATCAAGAGACCCAGTGTAGGACTGGATCAGAAGTCAACATCTGAAGACCC  
 AAGATGACCTCTCCAAGTGTCTCAGCCAAGAGGGGAAAGGGAAACACGTCCTGTTTCCGCTCTGACA  
 TCATGCAGAAACAGTCTGTGGCTGAGGGAGATGTGAGGGCTCAAAGGCCAATGATCAGGCTTGAAGCA  
 GCCAAAATGGATGAGCAGAGCCTGAATACTTGTGCGGCGATCAGTGAGACATCAGAGGATCAGACCTTG  
 GTGGATCAACAGTCTTCTCCCGGACCAGACTCAGACACAAGCATAGAGCCAGGGCCGGGAGAGTCA  
 AATCGAGAAGCGGGTCTAACAGTGGCCTGGATTACATCAAAATCACCTGGAAGAGGCTCCGCTCACACTC  
 CAGACAGTATGTGTCGGGCTGCACTTGAACCGAGAGCGGAAGGCAAGCAAGCAGTTGGGTTTTATCATG  
 GCGGCCTTCACTTCTGCTGGATTCCCTATTTTCATCTTTCATGGTCATTGCCTTCTGCAAGAGCTGCT  
 GCAGTGAACCCATGCATATGTTACCATTGGCTGGGCTACATCAACTCCACGCTGAACCCCTCATCTA  
 CCCCTGTGCAACGAGAAGTCAAGAAGACATTCAAAAAGATTCTGCACATTCGTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR212889 representing NM\_017018  
 Red=Cloning site Green=Tags(s)

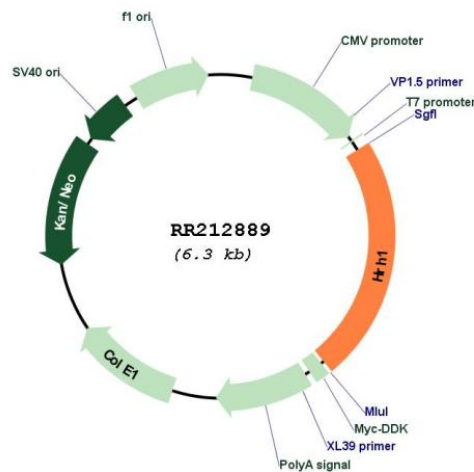
MSFANTSSTFEDKMCEGNRTAMASPQLLPLVVVLSISLVTVGLNLLVLYAVHSEKRLHTVGNLYIVSLS  
 VADLIVGAVVMPMNILYLIMTKWSLGRPLCLFWLSMDYVASTASIFSVFILCIDRYRSVQQPLRYLRRT  
 KTRASATILGAWFFSFLWVPIILGWHHFMPPAPELREDKCETDFYNVTWFKIMTAIINFYLPDLLMLWY  
 VKIYKAVRRHCQHRQLTNGSLPSFSELKLRSDDTKEGAKKPGRESPWGLKRPDRPSVGLDQKSTSEDP  
 KMTSPTVFSQEGERETRPCFRLDIMQKQSVAEQDVRGSKANDQALSQPKMDEQSLNTRRISETSEDQTL  
 VDQQSFRTTDSSTIEPGRVKSRSRGSNSGLDYIKITWKRLRSHSRQYVSGLHLNRERKAAKQLGFIM  
 AAFILCWIPYFIFFMVIAFCCKSCSEPMMHFTIWLGYINSTLNPLIYPLCNENFKKTFKILHIRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

**Plasmid Map:**

**ACCN:**

NM\_017018

**ORF Size:**

1458 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\\_017018.1](#), [NP\\_058714.1](#)

**RefSeq Size:** 1461 bp

**RefSeq ORF:** 1461 bp

**Locus ID:** 24448

**UniProt ID:** [P31390](#)

**Cytogenetics:** 4q42

**MW:** 55.7 kDa

**Gene Summary:** activates nitric oxide synthase via G-protein coupled signaling pathways; plays a role in interneuronal coupling [RGD, Feb 2006]