

## Product datasheet for **RR215222**

### Hcrt (NM\_013179) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Hcrt (NM\_013179) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Hcrt  
**Synonyms:** orexin-A  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RR215222 representing NM\_013179  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACCTTCCTTCTACAAAGTTCCCTGGGCCGCCGTGACGCTGCTGCTGCTACTGCTGCCCGCG  
CGCTGCTGTCGCTTGGGGTGGACGCGCAGCCTCTGCCGACTGCTGTGCCAGAAGACGTGTTCTGCCG  
TCTCTACGAAGTGTGCACGGAGCTGGCAACCACGCCGGGCATCCTCACTCTGGGAAAGCGGCGACCT  
GGACCCCAAGCCTCAAGGACGGCTGCAGCGCCTCCTCAGGCCAACGGTAACCACGCAGCTGGCATCC  
TGACCATGGGCCCGCCGCGCAGGCGCAGAGCTAGAGCCATATCCCTGCCCTGGTCGCCGCTGTCCGACTGC  
AACCGCCACCGCTTAGCGCCCCGGGGCGATCCAGAGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR215222 representing NM\_013179  
**Red=Cloning site Green=Tags(s)**

MNLPSTKVPWAAVTL LLLLLLPPALLSLGVDAQPLPDCCRQKTCSCRLYELLHGAGNHAAGILTLGKRRP  
GPPGLQGRLLQANLNHAAGILTMGRRAGAELEPYPCPRRCPTATATAPRGGSRV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**


**ACCN:** NM\_013179

**ORF Size:** 390 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\\_013179.2](#), [NP\\_037311.1](#)

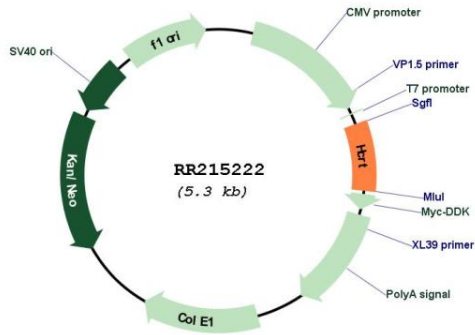
**RefSeq Size:** 581 bp

**RefSeq ORF:** 393 bp

**Locus ID:** 25723

UniProt ID: [O55232](#)  
 Cytogenetics: 10q31  
 MW: 13.6 kDa  
 Gene Summary: neuropeptide; involved in feeding behavior and hormone secretion regulation [RGD, Feb 2006]

**Product images:**



Circular map for RR215222