

Product datasheet for MC208652

Hcrt (NM_010410) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hcrt (NM_010410) Mouse Untagged Clone
Tag: Tag Free
Symbol: Hcrt
Synonyms: PPOX
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC208652 representing NM_010410
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACTTTCCTTCTACAAAGGTTCCCTGGGCCCGGTGACGCTGCTGCTGCTACTGCTGCCCGCG
 CGCTGCTGTCGTTGGGGTGGACGCACAGCCTCTGCCCGACTGCTGTCGCAGAAAGAGCTGTTCTCGCC
 TCTCTACGAAGTGTGCACGGAGCTGGCAACCACGCTGCGGGTATCCTGACTCTGGGAAAGCGGCGCCT
 GGACCTCCAGGCCTCCAGGGACGGCTGCAGCGCCTCCTTCAGGCCAACGGTAACCACGCAGCTGGCATCC
 TGACCATGGGCCCGCCGAGGGCAGAGCTAGAGCCACATCCCTGCTCTGGTCGCGGCTGTCCGACCGT
 AACTACCACCGCTTTAGCACCCCGGGAGGGTCCGGAGT**CTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_010410
Insert Size: 393 bp
OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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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_010410.2](#), [NP_034540.1](#)

RefSeq Size: 584 bp

RefSeq ORF: 393 bp

Locus ID: 15171

UniProt ID: [O55241](#)

Cytogenetics: 11 63.6 cM

Gene Summary: This gene encodes a hypothalamic neuropeptide precursor protein that gives rise to two mature neuropeptides, orexin A and orexin B, by proteolytic processing. Orexin A and orexin B, which bind to orphan G-protein coupled receptors Hcrtr1 and Hcrtr2, function in the regulation of sleep and arousal. This neuropeptide arrangement may also play a role in feeding behavior, metabolism, and homeostasis. [provided by RefSeq, Sep 2015]