

Product datasheet for **MG222595**

Hcrt (NM_010410) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Hcrt (NM_010410) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Hcrt
Synonyms: PPOX
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222595 representing NM_010410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACCTTCCTTCTACAAAGGTTCCCTGGGCCCGGTGACGCTGCTGCTGCTACTGCTGCCCGG
 CGCTGCTGTCGCTTGGGGTGGACGCACAGCCTCTGCCGACTGCTGTCGCCAGAAGACGTGTTCTGCCG
 TCTCTACGAAGTGTGCACGGAGCTGGCAACCACGCTGCGGGTATCCTGACTCTGGGAAAGCGCGGCCCT
 GGACCTCCAGGCCTCCAGGGACGGCTGCAGCGCCTCCTCAGGCCAACGGTAACCACGCAGCTGGCATCC
 TGACCATGGGCCCGCCGCGAGGCGCAGAGCTAGAGCCACATCCCTGCTCTGGTCGCGGCTGTCCGACCGT
 AACTACCACCGCTTTAGCACCCCGGGAGGGTCCGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222595 representing NM_010410
 Red=Cloning site Green=Tags(s)

MNFPSTKVPWAAVTLTLLLLPPALLSLGVDAQPLPDCCRQKTCSCRLYELLHGAGNHAAGILTLGKRRP
 GPPGLQGRLQRLQANGNHAAGILTMGRRAGAELEPHPCSGRGCPVTTTALAPRGGSGV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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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:	<ol style="list-style-type: none">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 Hcrt1 and Hcrt2, 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]