

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 Neomycin

Selection:

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >MG222595 representing NM_010410

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

AACTACCACCGCTTTAGCACCCCGGGGAGGGTCCGGAGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222595 representing NM_010410

Red=Cloning site Green=Tags(s)

MNFPSTKVPWAAVTLLLLLLPPALLSLGVDAQPLPDCCRQKTCSCRLYELLHGAGNHAAGILTLGKRRP

GPPGLQGRLQALQANGNHAAGILTMGRRAGAELEPHPCSGRGCPTVTTTALAPRGGSGV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul



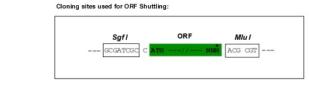
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

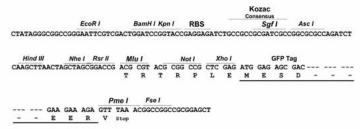
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com

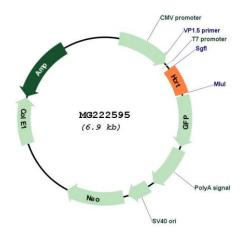


Cloning Scheme:





Plasmid Map:



ACCN: NM_010410

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: <u>NM 010410.2</u>, <u>NP 034540.1</u>

 RefSeq Size:
 584 bp

 RefSeq ORF:
 393 bp

 Locus ID:
 15171

 UniProt ID:
 055241

 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]