

Product datasheet for MR222595

Hcrt (NM_010410) Mouse Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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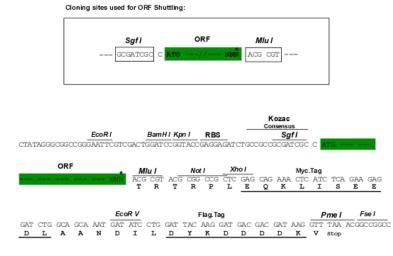
Product Type:	Expression Plasmids
Product Name:	Hcrt (NM_010410) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Hcrt
Synonyms:	РРОХ
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR222595 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGAACTTTCCTTCTACAAAGGTTCCCTGGGCCGCCGTGACGCTGCTGCTGCTGCTGCTGCTGCCGCCGG CGCTGCTGCTGCTTGGGGTGGACGCACAGCCTCTGCCCGACTGCTGCCGCAGAAGACGTGTTCCTGCCG TCTCTACGAACTGTTGCACGGAGCTGGCAACCACGCTGCGGGTATCCTGACTCTGGGAAAGCGGCGGCGC GGACCTCCAGGCCTCCAGGGACGGCTGCAGCGCCTCCTTCAGGCCAACGGTAACCACGCAGCTGGCATCC TGACCATGGGCCGCCGCGCAGGCGCAGAGCTAGAGCCACATCCCTGCTCTGGTCGCGGCTGTCCGACCGT AACTACCACCGCTTTAGCACCCCGGGGAGGGTCCGGAGTC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>MR222595 protein sequence <mark>Red</mark> =Cloning site Green=Tags(s)
	MNFPSTKVPWAAVTLLLLLLPPALLSLGVDAQPLPDCCRQKTCSCRLYELLHGAGNHAAGILTLGKRRP GPPGLQGRLQRLLQANGNHAAGILTMGRRAGAELEPHPCSGRGCPTVTTTALAPRGGSGV
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Restriction Sites:	Sgfl-Mlul



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Cloning Scheme:



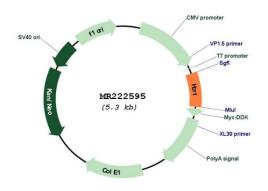
* The last codon before the Stop codon of the ORF

ACCN:	NM_010410
	-
ORF Size: OTI Disclaimer:	393 bp 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. <u>More info</u>
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:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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, NP 034540.1</u>
RefSeq Size:	584 bp
RefSeq ORF:	393 bp
Locus ID:	15171

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	Hcrt (NM_010410) Mouse Tagged ORF Clone – MR222595
UniProt ID:	<u>055241</u>
Cytogenetics:	11 63.6 cM
MW:	13.5 kDa
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]

Product images:



Circular map for MR222595

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