

Product datasheet for **MR204445**

Crym (NM_016669) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Crym (NM_016669) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Crym
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204445 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGCGGGCGCCAGCGTTCTGAGCGCAGAGGAGGTGCAGGATCACCTTCGCAGCTCCAGCCTTCTCA
TCCCACCCTGGAGGCCGCACTGGCCAACCTTCCAAAGGTCCCAGCGAGGGGTCATGCAGCCAGTGCC
CACCGTGGTGCTGTAGCCAAGCACCGAGGCTTCTGGGAGTCATGCCTGCCTACAGTGTGCTGAGGAT
GCGCTCACCAAGTTAGTCACCTTCTATGAGGGCCACAGCAACACAGCGGTCCCCTCCCATCAGGCAT
CGGTGCTTCTTTGATCCCAGCAATGGCTCCCTGCTGGCGGTCATGGATGGAAATGTCATAACTGCAAA
GAGAACAGCAGCGGTGTCTGCCATTGCCACAAAGCTGTTGAAGCCCCAGGCAGTGATGTGCTGTGCATC
CTTGGAGCGGGGTCCAGGCGTACAGTCACTATGAGATCTTACAGAGCAGTTCTCCTTCAAGGAGGTGA
GAATGTGGAACCGCACAGGGAAAATGCTGAGAAGTTTGCAAGCACAGTCAAGGAGATGTTCCGGTCTG
TTCATCAGTGCAGGAGGCTGTGACAGGTGCTGATGTATCATCACAGTCAACATGGCAACAGAGCCCATT
TTATTTGGTGAATGGTAAAGCCGGGGCTCACATCAATGCTGTTGGAGCCAGCAGGCTGACTGGCGAG
AACTGGATGACGAGCTCATGAGGCAAGCGGTGCTGATGTGGACTCCCGGAGGCTGCCCTGAAGGAGTC
AGGAGACGTTCTGTTGTCAGGGGCTGACATCTTTGCTGAGCTTGAGAAGTGATTTCAAGAGCGAAGCCT
GCACACTGTGAGAAGACCACAGTGTCAAATCTTTGGGATGGCAGTGAAGACCTGGTTGCAGCCAAAT
TAGTATATGATTCTTGGTCATCTGGCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence:

>MR204445 protein sequence
 Red=Cloning site Green=Tags(s)

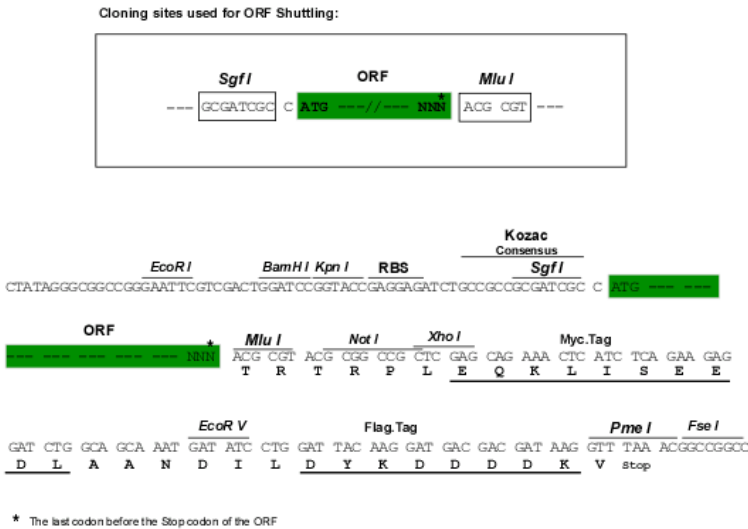
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MKRAPAFLSAEEVQDHLRSSLIPPLEAALANFSKGPDGGVMQPVRTVVPVAKHRGFLGVMPAYSAED
ALTTKLVTFYEGHSNTAVPSHQASVLLFDPSNGSLLAVMDGNVITAKRTAAVSAIATKLLKPPGSDVLCI
LGAGVQAYSHYEIFTEQFSFKEVRMWNRTRENAEKFASTVQGDVRCSSVQEAVTGADVIIIVTMTATEPI
LFGWEVVKPGAHINAVGASRPDWRELDDELMRQAVLYVDSREAALKESGDVLLSGADIFAEELGEVVISGAKP
AHCEKTTVFKSLGMAVEDLVAAKLVYDSWSSGK
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKLV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_016669

ORF Size:

942 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_016669.2](#)

RefSeq Size: 1256 bp

RefSeq ORF: 942 bp

Locus ID: 12971

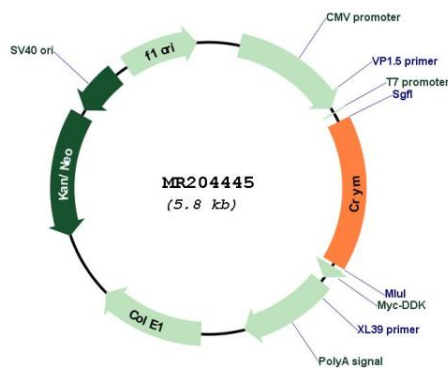
UniProt ID: [O54983](#)

Cytogenetics: 7 64.47 cM

MW: 33.5 kDa

Gene Summary: Specifically catalyzes the reduction of imine bonds in brain substrates that may include cystathionine ketimine (CysK) and lanthionine ketimine (LK). Binds thyroid hormone which is a strong reversible inhibitor. Presumably involved in the regulation of the free intracellular concentration of triiodothyronine and access to its nuclear receptors (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204445