

Product datasheet for SC118966

mu Crystallin (CRYM) (NM_001888) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	mu Crystallin (CRYM) (NM_001888) Human Untagged Clone
Tag:	Tag Free
Symbol:	mu Crystallin
Synonyms:	DFNA40; THBP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118966 sequence for NM_001888 edited (data generated by NextGen Sequencing)

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ATGAGCCGGGTACCAGCGTTCCTGAGCGCGCCGAGGTGGAGGAACACCTCCGCAGCTCC
AGCCTCCTCATCCCGCCTCTAGAGACGGCCCTGGCCAATTCTCCAGCGTCCCGAAGGA
GGGGTCATGCAGCCCGTGCACCGTGGTGCCGGTGACCAAGCACAGGGCTACCTGGGG
GTCATGCCCGCTACAGTGTGCAGAGGATGCACTGACCACCAAGTTGGTCACTTCTAC
GAGGACCGCGGCATCACCTCGGTCGTCCCTTCCCACCAGGCTACTGTGCTACTCTTTGAG
CCCAGCAATGGCACCCCTGCTGGCGGTGATGGAAATGCATAACTGCAAAGAGAACA
GCTGCAGTTTCTGCCATTGCCACCAAGTTTCTGAAACCTCCCAGCAGTGAAGTGTGTGC
ATCCTTGGGGCTGGGGTCCAGGCCCTACAGCCATTATGAGATCTTCACAGAGCAGTTCTCC
TTTAAGGAGGTGAGGATATGGAACCGCACCAAAGAAAATGCAGAGAAGTTTGCAGACACA
GTGCAAGGAGAGGTACGGGTCTGTTCTTCGGTCCAGGAGGCTGTGGCAGGTGCAGATGTG
ATCATCACAGTCAACCCTGGCAACAGAGCCATTTTGTGGTGAATGGGTGAAGCCAGGG
GCTCACATCAATGCTGTTGGAGCCAGCAGACCTGACTGGAGAGAAGTGGATGATGAGCTC
ATGAAAGAAGCTGTGCTGTACGTGGATTCCCAGGAGGCTGCCCTGAAGGAGTCTGGAGAT
GTCCTGCTGTGAGGGCCGAGATCTTTGCTGAGCTGGGAGAAGTATTAAAGGGAGTGAAA
CCAGCCCACTGTGAGAAGACCACCGTGTCAAGTCTTTGGGAATGGCAGTGAAGACACA
GTTGCAGCCAACTCATCTATGATTCTGGTTCATCTGGTAAATAA

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Clone variation with respect to NM_001888.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001888 unedited TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCGAGATGAGCCGGGTAC CAGCGTTCCTGAGCGCGGCCGAGGTGGAGGAACACCTCCGCAGCTCCAGCCTCCTCATCC CGCCTCTAGAGACGGCCCTGGCCAATTCTCCAGCGGTCCCGAAGGAGGGGTATGCAGC CCGTGCGCACCCTGGTCCCGGTACCAAGCACAGGGGCTACCTGGGGTTCATGCCCGCT ACAGTGTGCAGAGGATGCACTGACCACCAAGTTGGTACCTTTACGAGGACCGCGGCA TCACCTCGGTCTCCCTTCCCACCAGGCTACTGTGCTACTCTTTGAGCCAGCAATGGCA CCCTGTGGCGGTATGGATGGAATGTCATAACTGCAAAGAGAACAGCTGCAGTTTCTG CCATTGCCACCAAGTTTCTGAAACCTCCCAGCAGTGAAGTGCTGTGCATCCTTGGGGCTG GGGTCCAGGCCTACAGCCATTATGAGATCTTACAGAGCAGTTCTCCTTTAAGGAGGTGA GGATATGGAACCGCACCAAAAGAAAATGCAGAGAAGTTGACAGACACAGTCAAGGAGAGG TACGGGTCTGTTCTCGGTCCAGGAGGCTGTGGCAGGTGCAGATGTGATCATCACAGTCA CCCTGNCAACAGAGCCCATTTTGTGGTGAATGGGTGAAGCCAGGGGCTCACATCAATG CTGTTGGAGCCAGCAGACCTGACTGGAGAGAACTGGATGATGAGCTCATGAAAGAAGCTG TGCTGTACGTGGATTCCCAGNAGGCTGCCCTGAAAGAGTCTGGAGATGCCTGTCTCAG GNGCCGAGATCTTTGCTGAGCTGGGAGAAGTGATTAAGGGAGTGAACCAGCCCCTGTG AGAAGACCACGTGNTNCAAGTCTTTGGAATGGCAGTGAAN</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001888 unedited ATGTACCGCGGCACGCAATCTATAGTCGAGTTTTTTTTTTTTTTTTTTTAAACAATTGGA ATGTGCTTTATTTTCAGGGAAAATATAAAGGGAAATGAATGCTATTATAACTTGGTAGAAC AGAAGAAATGGCTACCTAGCTTTGCTTTCCAACACAAACATAAATGAGGATCTCAGCAT TTAAGGTAAAACATGATAAGCACAAAAGGAGAGTTCAGTGGGGACTGGACTCCCTCATT ACTCTAGAAATTATGAGAACCAGCAGCAATATTCTCAAGCATCCATCTCAACATCAAGT TCCTTTGTTTTATTTACCAGATGACCAGGAATCATAGATGAGTTTGGCTGCAACTGTGTC TTCCACTGCCATTCCAAAGACTTGAACACGGTGGTCTTCTCACAGTGGGCTGGTTTCAC TCCCTTAATCACTTCTCCAGCTCAGCAAAGATCTCGGCCCTGCAGCAGGACATCTCC AGACTCCTTCAGGGCAGCCTCCTGGGAATCCACGTACAGCACAGCTTCTTTTCATGAGTCT ATCATCCAGTTCTCTCCAGTCAGTCTGCTGGCTCCAACAGCATTGATGTGAGCCCTGG CTTACCCATTACCAAACAAAATGGGCTCTGTTGCCAGGTGACTGTGATGATCACATC TGCACCTGCCACAGCCTCCTGGACCGAAGACAGACCCGTAACCTCCTTGCAGTGTGCT GCAAACCTTCTCTGATTTTCTTTGGTGCCGGTTCATATCCTCACCTCCTTAAGGAAAAC GCTCTGGAAAACCTCATATGGCTGGGAGCCCGACCCCAAGATGACAGCACTTCA CTGCTGGGAGGTTCAAACCTGGGGGCATGGCAAAAACCTGCACTGTCTTGCATTAATA CATTTCTCCTTGACGCCACAGGGGCTGGCTGGGCTCAAAGTACCCATACCCGGGGGAA GGCAACCCGGTATCCGGTCCCTA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001888
Insert Size:	1320 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).

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_001888.2](#), [NP_001879.1](#)

RefSeq Size: 1303 bp

RefSeq ORF: 945 bp

Locus ID: 1428

UniProt ID: [Q14894](#)

Cytogenetics: 16p12.2

Domains: ODC_Mu_crystall

Gene Summary: Crystallins are separated into two classes: taxon-specific and ubiquitous. The former class is also called phylogenetically-restricted crystallins. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. This gene encodes a taxon-specific crystallin protein that binds NADPH and has sequence similarity to bacterial ornithine cyclodeaminases. The encoded protein does not perform a structural role in lens tissue, and instead it binds thyroid hormone for possible regulatory or developmental roles. Mutations in this gene have been associated with autosomal dominant non-syndromic deafness. [provided by RefSeq, Sep 2014]