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Product datasheet for RG207718

beta B1 Crystallin (CRYBB1) (NM_001887) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	beta B1 Crystallin (CRYBB1) (NM_001887) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	beta B1 Crystallin
Synonyms:	CATCN3; CTRCT17
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>>RG207718 representing NM_001887 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ATGTCTCAGGCTGCAAAGGCCTCGGCCTCGGCCACAGTGGCGGTGAACCCAGGGCCTGACACCAAGGGGA AGGGGGCCCCACCTGCAGGAACATCCCCTAGTCCCGGCACTACCCTGGCCCAACAACCGTGCCTATTAC CAGCGCCAAGGCGGCAGAACTGCCTCCTGGGAACTACAGGCTGGTGGTCTTCGAACTGGAAAACTTCCAG GGCCGTCGAGCAGAATTCTCGGGGGAGTGCTCAAATCTGGCAGACCGTGGCTTCGACCGTGTGCGCAGCA TCATTGTCTCCGCGGGACCCTGGGTCGCCTTTGAGCAGTCCAACTTCCGCGGGGAGATGTTCATCCTGGA GAAGGGCGAGTACCCTCGCTGGAACACATGGTCGAGCAGCTACCGCAGTGATCGGCTCATGTCCTCCGG CCCATCAAAATGGATGCCCAGGAGCAACAAAATCTCCCTGTTTGAAGGGGCCAACTTCAAGGGCAACACCA TAGAGATCCAGGGGGACGACCACAAAATCTCCCTGTTTGAAGGGGCCAACTTCAAGGGCAACACCA AGGTCTCCAGTGGAACACTGGGTTGGCTATCAGTATCCTGGCTACCGCGGGTACCAGTACCTCCTAGAC GGTCTCCAGTGGAACATGGGTTGGCTATCAGTATCCTGGCTACCGCGGGTACCAGTACCTCCTAGAGCCT GGTGACTTCCGGCACTGGAATGAGTGGGGAGCCTTCCAGCCACAGATGCAGTCCCTGCGTCGCTGCGTG ACAAGCAGTGGCACCTCGAGGGGTCCTTCCCTGTCCTGGCCACAGAGCCCCCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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	beta B1 Crystallin (CRYBB1) (NM_001887) Human Tagged ORF Clone – RG207718
Protein Sequence:	e: >RG207718 representing NM_001887 Red=Cloning site Green=Tags(s)
	MSQAAKASASATVAVNPGPDTKGKGAPPAGTSPSPGTTLAPTTVPITSAKAAELPPGNYRLVVFELENFQ GRRAEFSGECSNLADRGFDRVRSIIVSAGPWVAFEQSNFRGEMFILEKGEYPRWNTWSSSYRSDRLMSFR PIKMDAQEHKISLFEGANFKGNTIEIQGDDAPSLWVYGFSDRVGSVKVSSGTWVGYQYPGYRGYQYLLEP GDFRHWNEWGAFQPQMQSLRRLRDKQWHLEGSFPVLATEPPK
	TRTRPLE - GFP Tag - V
Restriction Sites	: Sgfl-Mlul
Cloning Scheme:	Cloning sites used for ORF Shuttling: Sgf1 ORF Miu I GCGATCGC C ATG NNX ACG CGT
	Kozac Consensus Consensus Consensus Consensus CONSENSUS CONSENSUS Sgfi Asci CONSENSUS Miu / Rsr // Miu / Noti Miu / Noti CARGCTTARCTAGCGACGCACCAC T R T R P L T R T R P L T R T R P L T R T R P L T R T R P L T R T R P L T R T R P L T R T R P L
	Pme 1 Fse 1 GAA GAA AGA GTT TAA ACGGCCGGCGGGGGGGCG E E R V stop

ACCN:	NM_001887
ORF Size:	756 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. <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).

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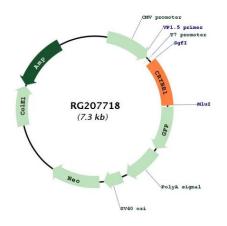
ORIGENE beta B1 Crystallin (CRYBB1) (NM_001887) Human Tagged ORF Clone – RG207718		
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube 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. 	
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.	
RefSeq:	<u>NM 001887.4</u>	
RefSeq Size:	921 bp	
RefSeq ORF:	759 bp	
Locus ID:	1414	
UniProt ID:	<u>P53674</u>	
Cytogenetics:	22q12.1	
Gene Summary:	Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the	

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latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Beta-crystallins, the most heterogeneous, differ by the presence of the C-terminal extension (present in the basic group, none in the acidic group). Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta basic group member, undergoes extensive cleavage at its N-terminal extension during lens maturation. It is also a member of a gene cluster with beta-A4, beta-B2, and beta-B3. [provided by RefSeq, Jul 2008]

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Product images:



Circular map for RG207718

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