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Product datasheet for RC210215

PDE6H (NM_006205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PDE6H (NM_006205) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PDE6H
Synonyms:	ACHM6; RCD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210215 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGAGTGACAACACTACTCTGCCTGCTCCAGCTTCAAACCAGGGTCCTACCACCCCACGCAAAGGCCCTC CCAAGTTCAAGCAGAGGCAGACTCGCCAATTCAAGAGTAAACCTCCAAAGAAAGGTGTGAAAGGATTTGG AGATGACATTCCAGGAATGGAGGGGCTAGGAACAGATATCACAGTGATTTGTCCATGGGAGGCATTCAGC CACCTGGAATTGCATGAGCTCGCTCAGTTTGGGATTATC ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA
Protein Sequence:	>RC210215 protein sequence Red=Cloning site Green=Tags(s) MSDNTTLPAPASNQGPTTPRKGPPKFKQRQTRQFKSKPPKKGVKGFGDDIPGMEGLGTDITVICPWEAFS HLELHELAQFGII TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6375_h09.zip
Restriction Sites:	SgfI-MluI

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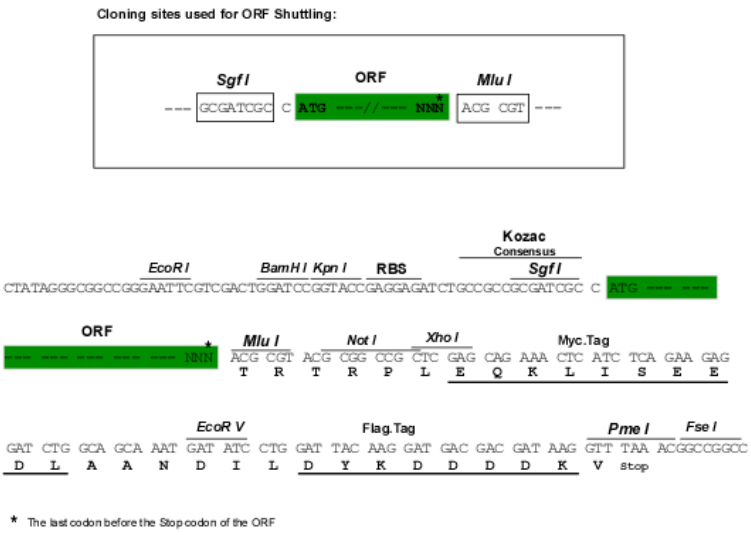
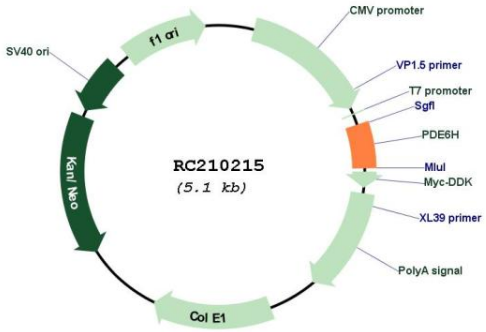
Cloning Scheme:



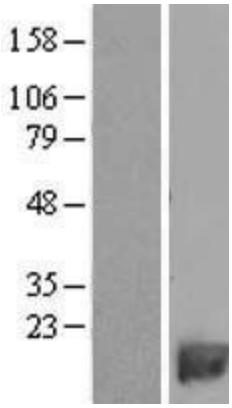
ACCN:	NM_006205
ORF Size:	249 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_006205.3
RefSeq Size:	763 bp
RefSeq ORF:	252 bp
Locus ID:	5149

UniProt ID:	Q13956
Cytogenetics:	12p12.3
Protein Pathways:	Progesterone-mediated oocyte maturation, Purine metabolism
MW:	9.1 kDa
Gene Summary:	This gene encodes the inhibitory (or gamma) subunit of the cone-specific cGMP phosphodiesterase, which is a tetramer composed of two catalytic chains (alpha and beta), and two inhibitory chains (gamma). It is specifically expressed in the retina, and is involved in the transmission and amplification of the visual signal. Mutations in this gene are associated with retinal cone dystrophy type 3A (RCD3A). [provided by RefSeq, Mar 2010]

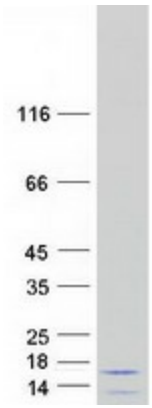
Product images:



Circular map for RC210215



Western blot validation of overexpression lysate (Cat# [LY416802]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PDE6H protein (Cat# [TP310215]). The protein was produced from HEK293T cells transfected with PDE6H cDNA clone (Cat# RC210215) using MegaTran 2.0 (Cat# [TT210002]).