

Product datasheet for **RG201136**

CRALBP (RLBP1) (NM_000326) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CRALBP (RLBP1) (NM_000326) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RLBP1
Synonyms:	CRALBP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201136 representing NM_000326 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCAGAAGGGGTGGGCACGTTCCGCATGGTACCTGAAGAGGAACAGGAGCTCCGTGCCAACTGGAGC
AGCTCACAACCAAGGACCATGGACCTGTCTTTGGCCCGTGCAGCCAGCTGCCCGCCACACCTTGCAGAA
GGCCAAGGATGAGCTGAACGAGAGAGAGAGACCCGGGAGGAGGCAGTGCAGAGCTGCAGGAGATGGT
CAGGCGCAGGCGCCTCGGGGAGGAGCTGGCGGTGGCCGTGGCGGAGAGGGTGAAGAGAAGGACAGCG
GCTTCTTCTGCGCTTCATCCGCGCACGGAAGTTCAACGTGGCCGTGCCTATGAGCTGCTCAGAGGCTA
TGTGAATTTCCGGCTGCAGTACCCTGAGCTCTTTGACAGCCTGTCCCAGAGGCTGTCCGCTGCACCATT
GAAGCTGGCTACCCTGGTGTCTCTAGTCGGGACAAGTATGGCCGAGTGGTATGCTCTTCAACATTG
AGAAGTGGCAAAGTCAAGAAATCACCTTTGATGAGATCTTGAGGCATATTGCTTCATCCTGGAGAAGCT
GCTGGAGAATGAGGAACTCAAATCAATGGCTTCTGCATCATTGAGAAGTCAAGGGCTTTACCATGCAG
CAGGCTGCTAGTCTCCGGACTTCAGATCTCAGGAAGATGGTGGACATGCTCCAGGATTCCTTCCCAGCCC
GGTTCAAAGCCATCCACTTCATCCACCAGCCATGGTACTTCACCACGACCTACAATGTGGTCAAGCCCTT
CTTGAAGAGCAAGCTGCTTGAGAGGGTCTTTGTCCACGGGGATGACCTTTCTGGTTTCTACCAGGAGATC
GATGAGAACATCCTGCCCTCTGACTTCGGGGCACGCTGCCAAGTATGATGGCAAGGCCGTTGCTGAGC
AGCTCTTTGGCCCCAGGCCAAGCTGAGAACACAGCCTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201136 representing NM_000326
 Red=Cloning site Green=Tags(s)

MSEGVGTFRMVPEEEQELRAQLEQLTTKDHGPFVFGPCSQLPRHTLQKAKDELNEREETREEAVRELQEMV
 QAAASGEELAVAVAERVQEKDSGFFLRFRARKFNVGRAYELLRGVNFRLQYPELFDLSPEAVRCTI
 EAGYPGLVSSRDKYGRVVMLFNIENWQSQEIFDEILQAYCFILEKLLNEETQINGFCIIENFKGFTMQ
 QAASLRSDLRKMDMLQDSFPPARFKAIHFHQWPYFTTTYNVVKPFLKSKLLERLVFVHGDDLSGFYQEI
 DENILPSDFGGTLPKYDGKAVAEQLFGPQAQENTAF

TRTRPLE - GFP Tag - V

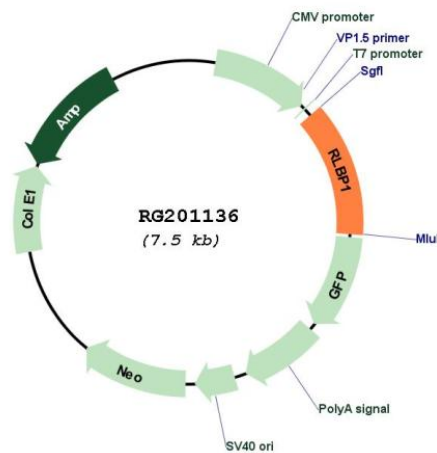
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_000326

ORF Size: 951 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:	<ol style="list-style-type: none">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_000326.5
RefSeq Size:	1764 bp
RefSeq ORF:	954 bp
Locus ID:	6017
UniProt ID:	P12271
Cytogenetics:	15q26.1
Protein Families:	Druggable Genome
Gene Summary:	The protein encoded by this gene is a 36-kD water-soluble protein which carries 11-cis-retinaldehyde or 11-cis-retinal as physiologic ligands. It may be a functional component of the visual cycle. Mutations of this gene have been associated with severe rod-cone dystrophy, Bothnia dystrophy (nonsyndromic autosomal recessive retinitis pigmentosa) and retinitis punctata albescens. [provided by RefSeq, Jul 2008]