

Product datasheet for SC123730

RGR (BC008094) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGR (BC008094) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGR
Synonyms:	RP44
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC008094 edited TGAGGATGGCAGAGACCAGTGCCTTGCCACCGGCTTCGGGGAGCTCGAGGTGCTGGCTG TGGGGATGGTGTACTGGTGAAGACCCCGGAGCTGCGGACTCCCTGCCACTACTGGTG CTGAGCTTGGCTCTTGCAGACAGTGGGATCAGCCTGAATGCCCTCGTTGCAGCCACATCC AGCCTTCTCCGTGTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCAC GGCTTCCAGGGCTTTGTGACAGCGTTGGCCAGCATCTGCAGCAGTGCAGCCATCGCATGG GGGCGTTATCACCCTACTGCACCCGCCAAAATGCTGCCATCGGTCTCATCATTTTGAAT GGCGATAGGTTAGCCCTTTGTCCACTTGGCCTCAGAGCACTTCTCCACTCCTTACATC CCAGCCCTGCCCTAATGCTCCCTTGGACCATCTTATACACACACACACACACACACAC ACACACACACACACACACACACACCACCTTCTCAGATAGCAACAGGCTTCTCTGCCTCAA TATAGAACAGTTAATCCCTGTGCCAGAGGCCTTAGATCAAAGCCCTTTCTATACTGAGAG CATGGCAGAGCAGTGTGAAGGCAGGCAAAGGGGAATGAGGAGGTCTGAATTCATCTACTC CATCCCTGGGTGTTGTAGGCATGTACCTTGGCCATCTGTTTCTAAAGCTGAAAGTCTG AGGCAGCACAATGGTCCAGGTAGATATTAATTATTGTGCCACAGAGAATTGTTTGAACC TGGAAAGGCAGAGGTTGCAGTGCAGTGCAGTGGCACCCTGCACTCCAGCCTGGGCAACAG AATGAGACTCCGCTCAATAAAAAAAAAAAAAAAAAAAAAA



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5' Read Nucleotide Sequence:	>OriGene 5' read for BC008094 unedited NAGGTCGCATATTGTATACGACTCACTATAGGCGGCCGCGNATTCATATCTGGTACCGGT CCGGAATCCCGGGATATCGTCGACCCACGCGTCCGCCACGCGTCCGTGAGGATGGCAG AGACCAGTGCCTTGCCACCCGGCTTCGGGGAGCTCGAGGTGCTGGCTGTGGGGATGGTGC TACTGGTGAAGACCCCGGAGCTGCGGACTCCCTGCCACCTACTGGTGTGAGCTTGGCT CTTGCCGACAGTGGGATCAGCCTGAATGCCCTCGTTGCAGCCACATCCAGCCTTCCGCT GTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCACGGCTTCCAGGGC TTTGTGACAGCGTTGCCAGCATCTGCAGCAGTGCAGCCATCGCATGGGGCGTTATCAC CACTACTGCACCCGCCAAATGTGCCATCGGTCTCATATTTTGTAGTGCGGATAGGTTA GCCCTCTGTCCACTTGGCCTCAGAGCACTTCTCCCACTCCTTACATCCCAGCCCCTGCC CCTAATGTCCCTTGGACCATCTTATACACACACACACACACACACACACACACACACAC ACACACACACACCACCTTCTCAGATAGCAACAGGCTTCTCTGCCTCAATATAGAAGAGTT AATCCCTGTGCCAGAGGCTTATATCAAAGCCCTTTCTATACTGAGAGCATGGCAGAGCA GTGTGAAGGCAGGCAAAGGGGAATGAGGAGGTCTGAATTCATCTACTCCATCCCTGGGTG GTTGTAGGCATGTCACCTTGGCCATCTGTTTCTAAAGCTGAAAGTCTGANGCAGCACAAT GGTCCAGGTAGATATTAATATTGTGCCACAGGACAATGTTTGATCCTGGAAGCCAAAGT TGGCATGAGCTGAAATGGCACACTGCACTCATCCTGGGCACAGATGAGACTCCGCT
Restriction Sites:	Please inquire
ACCN:	BC008094
Insert Size:	877 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:	<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:	BC008094.1 , AAH08094.1
RefSeq Size:	877 bp
RefSeq ORF:	363 bp
Locus ID:	5995
Cytogenetics:	10q23.1
Protein Families:	Druggable Genome, GPCR, Transmembrane

Gene Summary:

This gene encodes a putative retinal G-protein coupled receptor. The gene is a member of the opsin subfamily of the 7 transmembrane, G-protein coupled receptor 1 family. Like other opsins which bind retinaldehyde, it contains a conserved lysine residue in the seventh transmembrane domain. The protein acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. The reverse isomerization occurs with rhodopsin in retinal photoreceptor cells. The protein is exclusively expressed in tissue adjacent to retinal photoreceptor cells, the retinal pigment epithelium and Mueller cells. This gene may be associated with autosomal recessive and autosomal dominant retinitis pigmentosa (arRP and adRP, respectively). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]