

Product datasheet for **SC322246**

RGR (NM_002921) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGR (NM_002921) Human Untagged Clone
Tag:	Tag Free
Symbol:	RGR
Synonyms:	RP44
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene sequence for NM_002921 edited
 GGGAGAGTGAGGATGGCAGAGACCAGTGCCTTGCCACCGGCTTCGGGGAGCTCGAGGTG
 CTGGCTGTGGGGATGGTGTCTACTGGTGAAGCTCTCTCCGGTCTCAGCCTCAATACCCTG
 ACCATCTTCTCTTTCTGCAAGACCCCGGAGCTGCGGACTCCCTGCCACCTACTGGTGCTG
 AGCTTGGCTCTTGCAGACAGTGGGATCAGCCTGAATGCCCTCGTTGCAGCCACATCCAGC
 CTTCTCCGTGTCTCCACAGGCGCTGGCCCTACGGCTCGGACGGCTGCCAGGCTCACGGC
 TTCCAGGGCTTTGTGACAGCGTTGGCCAGCATCTGCAGCAGTGCAGCCATCGCATGGGGG
 CGTTATACCACTACTGCACCCGTAGCCAGCTGGCCTGGAACCTCAGCCGTCTCTGGTG
 CTCTTCGTGTGGCTGTCTTCTGCCTTCTGGCAGCTCTGCCCTTCTGGGTTGGGGTAC
 TATGACTATGAGCCACTGGGACATGCTGCACCCTGGACTACTCCAAGGGGGACAGAAAC
 TTCACCAGCTTCTCTTACCATGTCTTCTTCAACTTCGCCATGCCCTCTTATCAGG
 ATCACTTCTACAGTCTCATGGAGCAGAACTGGGGAAGAGTGGCCATCTCCAGGTAAC
 ACCACTTGCCAGCAAGGACGCTGCTGCTCGGCTGGGGCCCTATGCCATCCTGTATCTA
 TACGAGTTCATCGCAGACGTGACTTCCATCTCCCCAACTGCAGATGGTGCCCGCCCTC
 ATTGCCAAAATGGTGCCACGATCAATGCCATCAACTATGCCCTGGGCAATGAGATGGTC
 TGCAAGGGAACTGGCAGTGCCTCTCACCGCAGAAGAGGGAGAAGGACCGAACCAAGTGA
 GCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGTTCCAGGAGTCTGCCAGCAG
 CCTCGGTGGCCAAGCCCAGACACTCACCCACCTTCCCCAGTGGCCCCGTGGATCCTGGTC
 CTAGGCTGGACACAGGATTCAGAAAGACACCAGGCTGCACAGAAAGAGCCAGATGGACCT
 GAGTGTGGTACAGCCCCCTACACTCAAGGCTGAGAGGCTCAGGAAAGTCAATCCTTT
 TAAAAATAATAATAATGTAAGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCC
 TAGTGGTGAAGTCTGGGCTTTAGTGTAAACATCACCTAATAATATACGTTGTACCCAT
 TAAGTTATTTCTCATCCCTCACCCCTCCACCTTGTACCCCTTCTGAGTCTCCAATGTC
 TATTATCCACACTCCATGTCCACGTGTACACATTATTTAGCTCCCACTTACAAGTGAGA
 ACATGTGGTATTTGACTTCTGTTTTGAGTTATTTCACTTAAAATAATGACCTCCAGTT
 TCATCCATGTTGCTGCAAAAGACATGATCTCGTCTTTTTTATGGCAGTGTAGTATTCCA
 TTCCATATACATATATAAACGTTATATATATGTAACGTTTTCTTTATCCAATCATCTGTT
 GATGGATAGATCCATATCTTTGCTACTGTAACAGAGCTGTGATAAGCATACAAGTGCA
 GGTTCCTTTTGTATATACTGATTTCTTTTCTTTGGGTAGATACCAGTAGTAGGACTGCT
 GGATCAAATGGTAGCTCTATTTTAAGACAGTATGGAGAAATCACCATACTGTTTTCCAT
 AGGGGTTGTAATAATTTACAGTCCACCAACAGTGTATAGGTGTTCCCTTTTCTCTGCAT
 CCTTACCAATATCTGTAATTTTTGACTTTTTAATAATAGCCATTCTCATTGTGTGAGA
 TAAGGTCTCATTGTGGTTTTAATTTCCATTTCTCTGATGACTTTTGATGTTAAGCATTTT
 TTCATATGCTTCTTAGCCACGTGTATGTATTCTTTTTGAAAAATGTTTATTTCATGTCTT
 TTGCCACTTTTTAATGGCATTATTTGGATTTTTTTGTTGAGTTATTTGAGTTTCTTAT
 ATATTTCTGGATAATAGTCTGGATAATATATTCTGGATAATATAATAGTCTTATATATT
 CTGGATAATTTCTGGATAACATGGTTTGCAAAATTTTTCTCCGGTCTGCACGTTGTTTCAT
 TCTGTTGATGGTTATTTTGTCTGTGCAGAACTTTTTAGTTTAAATTAAGTCCCATTGTT
 CTAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_002921

Insert Size: 2300 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).

OTI Annotation: It is not a variant.

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:	<u>NM_002921.3, NP_002912.2</u>
RefSeq Size:	1475 bp
RefSeq ORF:	888 bp
Locus ID:	5995
UniProt ID:	<u>P47804</u>
Cytogenetics:	10q23.1
Domains:	7tm_1
Protein Families:	Druggable Genome, GPCR, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>