

## Product datasheet for **SC207359**

### RGR (NM\_002921) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** RGR (NM\_002921) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** RGR  
**Synonyms:** RP44  
**ACCN:** NM\_002921  
**Insert Size:** 1351 bp  
**Insert Sequence:** >SC207359 3'UTR clone of NM\_002921

The sequence shown below is from the reference sequence of NM\_002921. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

```
GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAACGCATCGCC
CAGAAGAGGGAGAAGGACCGAACCAAGTGGCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGT
TCCAGGAGTCTGCCAGCAGCCTCAGTGGCCAAGCCCAGACTCACCCACCTTCCCCAGTGGCCCCG
TGGATCCTGGTCTAGGCTGGACACAGGATTCAGAAAGACACCAGGCTGCACAGAAAGAGCCAGATGGA
CCTGAGTGTGGTCCAGCCCCCTACACTCAAGGCTGAGAGGCCTCAGGAAAGTCAATTCCTTTTAAAA
ATAATAATAAATGTAAGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCCTAGTGGTGAAGTCTG
GGCTTTTAGTGTAAACCATCACCTAATAATACGTTGTACCCATTAAGTTATTTCTCATCCCTCACCC
CCTCCACCTTGTACCCTTCTGAGTCTCCAATGTCTATTATCCACACTCCATGTCCACGTGTACACA
TTATTTAGCTCCCACTTACAAGTGAACAATGTGGTATTTGACTTTCTGTTTTGAGTTATTTCACTTA
AAATAATGACCTCCAGTTTCATCCATGTTGCTGCAAAAGACATGATCTCGTTCTTTTTATGGCAGTGT
AGTATTCCATTCCATATACATATATAAAGTATATATATGTAAGTTTTCTTTATCCAATCATCTGTT
GATGGATAGATTCCATATCTTTGCTACTGTAAACAGCTGTGATAAGCATACAAGTGCAGGTTCTTTTT
GATATACTGATTTCTTTTCTTTGGGTAGATACCAAGTAGTAGGACTGCTGGATCAATGGTAGCTCTAT
TTTTAAGACAGTATGGAGAAATCACCACTGTTTTCCATAGGGTGTACTAATTTACAGTCCCACCA
ACAGTGTATAGGTGTTCCCTTTCTCTGCATCCTTACCAATATCTGTAATTTTTGACTTTTTAATAAT
AGCCATTTCACTTGTGTGAGATAAGGTCTCATTGTGGTTTTAATTTCCATTTCTCTGATGACTTTTGA
TGTTAAGCATTTTTTCATATGCTTCTTAGCCACGTGATGTATTCTTTTTGAAAAATGTTTATTCATG
TCTTTTGGCCACTTTTTAATGGCATTATTTGGATTTTTTTGTTGAGTTATTTGAGTTTCTTATATATT
CTGGATAATAGTCTGGATAATATATTCTGGATAATATAATAGTCTTATATATTCTGGATATATTCTG
GATACATGGTTTTGCAAATATTTTCTCCGTTCTGCACGTTGTTTCTGTTGATGGTTTTATTTGCTG
TGCAGAACTTTTTTAGTTAATTAAGTCCCATTGTCTA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCCTTCTATGAAAGG
```



[View online >](#)

<b>Restriction Sites:</b>	Sgfl-Mlul
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
<b>Components:</b>	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
<b>RefSeq:</b>	<a href="#">NM_002921.4</a>
<b>Summary:</b>	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]
<b>Locus ID:</b>	5995
<b>MW:</b>	52.2