

Product datasheet for **SC207358**

RGR (NM_001012722) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: RGR (NM_001012722) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: RGR
Synonyms: RP44
ACCN: NM_001012722
Insert Size: 1351 bp
Insert Sequence: >SC207358 3'UTR clone of NM_001012722

The sequence shown below is from the reference sequence of NM_001012722. The complete sequence of this clone may contain minor differences, such as SNPs.

Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAGAAGAGGGAGAAGGACCGAACCAAGTGCCTGCCACCCTGGAGTGAGCCCCAGGCCAGGAGGCTGT
TCCAGGAGTCTGCCAGCAGCCTCAGTGGCCAAGCCCAGACACTCACCCACCTTCCCCAGTGGCCCCG
TGGATCCTGGTCTAGGCTGGACACAGGATTAGAAAGACACCAGGCTGCACAGAAAGAGCCAGATGGA
CCTGAGTGTGGTCCAGCCCCCTACACTCAAGGCTGAGAGGCCCTCAGGAAAGTCAATTCCTTTTTAAAA
ATAATAATAAATGTAAGGGGTACAGTGCAGTTTTGTTACATGGATAGATTGCCTAGTGGTGAAGTCTG
GGCTTTTAGTGAACCATCACCTAATAATACGTTGTACCCATTAAGTTATTTCTCATCCCTCACCC
CCTCCACCTTGTACCCTTCTGAGTCTCCAATGTCTATTATCCACACTCCATGTCCACGTGTACACA
TTATTTAGCTCCCACTTACAAGTGAACAATGTGGTATTTGACTTTCTGTTTTGAGTTATTTCACTTA
AAATAATGACCTCCAGTTTCATCCATGTTGCTGCAAAAAGACATGATCTCGTTCTTTTTATGGCAGTGT
AGTATTCCATTCCATATACATATATAAAGTATATATATGTAAGTTTTCTTTATCCAATCATCTGTT
GATGGATAGATTCCATATCTTTGCTACTGTAAACAGCTGTGATAAGCATACAAGTGCAGGTTCTTTTT
GATATACTGATTTCTTTTCTTTGGGTAGATACCAAGTAGTAGGACTGCTGGATCAATGGTAGCTCTAT
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ACAGTGTATAGGTGTTCCCTTTCTCTGCATCCTTACCAATATCTGTAATTTTTGACTTTTTAATAAT
AGCCATTTCACTTGTGTGAGATAAGGTCTCATTGTGGTTTTAATTTCCATTTCTCTGATGACTTTTGA
TGTTAAGCATTTTTTCATATGCTTCTTAGCCACGTGATGATTTCTTTTGAAAAATGTTTATTCATG
TCTTTTGGCCACTTTTTAATGGCATTATTTGGATTTTTTTGTTGAGTTATTTGAGTTTCTTATATATT
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GATACATGGTTTTGCAAATATTTTCTCCGTTCTGCACGTTGTTTCATTCTGTTGATGGTTTTATTTGCTG
TGCAGAACTTTTTAGTTAATTAAGTCCCATTGTCTA
ACGCGTAAAGCGGCCGCGCATCTAGATTGAAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
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Restriction Sites:	Sgfl-Mlul
OTI Disclaimer:	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).
Components:	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.
RefSeq:	NM_001012722.2
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]
Locus ID:	5995
MW:	52.2