

## Product datasheet for **SC211325**

### RPE65 (NM\_000329) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** RPE65 (NM\_000329) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** RPE65  
**Synonyms:** BCO3; LCA2; mRPE65; p63; rd12; RP20; sRPE65  
**ACCN:** NM\_000329  
**Insert Size:** 984 bp  
**Insert Sequence:** >SC211325 3'UTR clone of NM\_000329  
 The sequence shown below is from the reference sequence of NM\_000329. 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
ACCTTTTCATGGACTGTTCAAAAAATCTTGAGCATACTCCAGCAAGATATGTTTTTGGTAGCAAAACTGA
GAAAATCAGCTTCAGGTCTGCAATCAAATCTGTTCATTTTAGCCTGCTATATGTCATGGTTTTAACT
TGCAGATGCGCACAATTTTGCAATGTTTTACAGAAAGCACTGAGTTGAGCAAGCAATTCCTTTATTTAA
AAAAAAAAGTACGTATTTAGATAATCATACTTCCTCTGTGAGACAGGCCATAACTGAAAACTCTTAAA
TATTTAGCAATCAAATAGGAAATGAATGTGGACTTACTAAATGGCTTTTAATTCCTATTATAAGAGCAT
ATTTTAGGTACCTATCTGCTCCAATTATTTTTAACATTTAAAAACCAAAGTCTCTACACTTGATTT
ATATTATATGTGGCTTTGCTGAGTCAAGGAAGTATCATGCAATAAGGCTTAATTAATAATGTCAAACC
AACTTTTTCTCAAACCAGGGACTATCATCTAAGATTAATTACAGTAATTATTTTGGGTATACGTAAC
GCTCAAAGATTATGAATCTTATGAATGTTAACCTTTCCGTTTATTACAAGCAAGTACTATTATTTCTGA
TTTTATAATAAGAAAATCTGTGTTAATCAACTGAGGCCTCTCAACCAAATAACATCTCAGAGATTAAG
TTATATATTAAGCTTATGTAACATAAAAGCAAGTACATATAGTAGTACTATATTTAAAAAACAGC
ATAAAATGCTTAAAAATGTAATATTTACTAAAATCAGATTATGGGATAATGTTGCAGGATTATACTTTA
TTGCATCTTTTTGTTAATTGTATTTAAGCATTGTGCAATCACTTGGGAAAAATATTAATTTAATC
ATTGAGGTATTAATACATTTTAAGCCTTTGTTTTAAATTTCTTTCTTCCAGAGATTGTTAAAAAT
AAATATTGACAAAAATAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCTGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI



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<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_000329.3</a>
<b>Summary:</b>	The protein encoded by this gene is a component of the vitamin A visual cycle of the retina which supplies the 11-cis retinal chromophore of the photoreceptors opsin visual pigments. It is a member of the carotenoid cleavage oxygenase superfamily. All members of this superfamily are non-heme iron oxygenases with a seven-bladed propeller fold and oxidatively cleave carotenoid carbon:carbon double bonds. However, the protein encoded by this gene has acquired a divergent function that involves the concerted O-alkyl ester cleavage of its all-trans retinyl ester substrate and all-trans to 11-cis double bond isomerization of the retinyl moiety. As such, it performs the essential enzymatic isomerization step in the synthesis of 11-cis retinal. Mutations in this gene are associated with early-onset severe blinding disorders such as Leber congenital. [provided by RefSeq, Oct 2017]
<b>Locus ID:</b>	6121
<b>MW:</b>	38.7