

## Product datasheet for **RG225581**

### **RBED1 (ELMOD3) (NM\_001135021) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RBED1 (ELMOD3) (NM_001135021) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ELMOD3
Synonyms:	DFNB88; LST3; RBED1; RBM29
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225581 representing NM_001135021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAATGAAAAATCTTGCTCTTTCCATAGTAAAGAAGAATTAAGAGATGGACAGGGTGAAAGATTGTCTG  
CTGGATATTCTCCATCATATGACAAGGACAAGAGTGTTCTGGCTTTCAGAGGAATCCCTATCTCAGAGTT  
GAAGAACCATGGCATTCTCCAGGCTCTGACCACAGAAGCTTATGAATGGGAGCCACGTGTTGTGAGTACA  
GAGGTGGTCAGAGCCCAAGAAGAATGGGAAGCTGTGGACACCATCCAGCCAGAGACAGGGAGCCAAGCTA  
GCTCAGAGCAGCCTGGGCAGCTAATCTCCTTCAGTGAGGCCCTGCAGCACTTCCAGACTGTGGACCTTTC  
CCCTTCAAGAAAAGAATCCAGCCAATTCGAAGGACTGGGCTCGCCGCCCTCCGACACTACCTCTTC  
GGCCTCCAAAGCTCCACCAGCGCCTTCGGGAAGAAAGGGACTTGGTCTGACCATTTGCTCAGTGTGGCC  
TGGATAGCCAAGACCCAGTGCATGGCCGAGTCTCCAGACCATCTATAAGAAGCTGACCGGCTCCAAGTT  
TGACTGTGCCCTTCATGGAAACCACTGGGAGGACTGGGCTTTCAGGGAGCGAATCCAGCCACAGACCTG  
AGAGGCGCAGGCTTCTTGCCCTCTGCATCTGCTCTACCTGGTATGGACTCAAAGACCTTGCCGATGG  
CGCAGGAGATTTCCGCCTGTCTCGTACCACATCCAGCAATTCCTTTCTGTTTGTGATGTCGGTGAACAT  
CACCCACATTGCCATCCAGGCCCTTGAGAGAGGAGTGTCTCTCCAGAGAGTGAATCGGCAGCAGAAGGTC  
ATCCCCGTGGTGAACAGTTCTATGCCGCCACATTCCTCCACCTCGCACATGTCTGGAGGACACAGCGGA  
AGACCATCTCAGACTCGGGCTTGTCTCCTCAAAGAGTTGGAAGTATTGGCCAAGAAGAGCCACGGCGGCT  
GCTCAAGACCCTGGAGCTGTACTTGCCAGGGTGTCAAAGGGACAGGCCCTCTTGTGGGAGCACAGAAG  
TGCTATGGCCAGAAGCCCTCCCTTCAAGGATCTCACCTTACAGGTGAGAGTGACCTGCAGTCTCACT  
CATCCGAAGCGTATGGCTGATC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225581 representing NM\_001135021  
 Red=Cloning site Green=Tags(s)

MNEKSCSFHSKEELRDGQGERLSAGYSPSYDKDKSVLAFRGIPISELKNHGILQALTTEAYEWEPVVST  
 EVVRAQEWEAVDTIQPETGSQASSEQPGLISFSEALQHFQTVDLSPFKKRIQPTIRRTGLAALRHYLF  
 GPPKLHQRLREERDLVLTIAQCGLDSQDPVHGRVLQTIYKKL TSKFDCALHGNHWEDLGFQGANPATDL  
 RGAGFLALLHLLYLVMDSKTL PMAQEIFRLSRHHIQQFPFCLMSVNITHIAIQALREECLSRECNRQQKV  
 IPVVNSFYAATFLHLAHVWRTQRKTI SDSGFVLKLEVLAKKSPRRLKLTLELYLARVSKGQASLLGAQK  
 CYGPEAPPFKDLTFTGESDLQSHSSEGVWLI

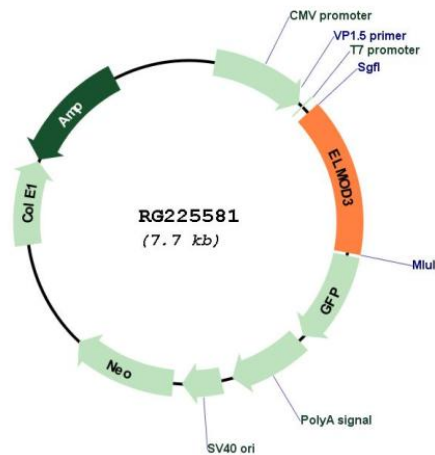
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001135021

<b>ORF Size:</b>	1143 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001135021.2</a>
<b>RefSeq Size:</b>	2618 bp
<b>RefSeq ORF:</b>	1146 bp
<b>Locus ID:</b>	84173
<b>UniProt ID:</b>	<a href="#">Q96FG2</a>
<b>Cytogenetics:</b>	2p11.2
<b>Gene Summary:</b>	This gene encodes a member of the engulfment and cell motility family of GTPase-activating proteins that regulate Arf GTPase proteins. Members of this family are defined by a conserved engulfment and cell motility domain. In rat cochlea, the encoded protein is found in stereocilia, kinocilia and cuticular plate of developing hair cells suggesting a function for this protein in cochlear sensory cells. An allelic variant of this family has been associated with autosomal recessive nonsyndromic deafness-88 in humans. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]