

Product datasheet for **RG237965**

Bestrophin 3 (BEST3) (NM_001282614) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bestrophin 3 (BEST3) (NM_001282614) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	BEST3
Synonyms:	VMD2L3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237965 representing NM_001282614. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
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TGGTGAACACAGTTTGTGAATTTGCCCTGGCCAGACAGGCTAATGTTCCATCTCTAGCAGTGTTCAC
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CAGATGCCTAAGAATGAGTGGAAGATGGAAGATATAAAAAATCCCACTCCCTCAGCCTCAATTCCAGTGT
GCTAAGAGTGATCCTGGTGGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG237965
 Blue=ORF Red=Cloning site Green=Tag(s)

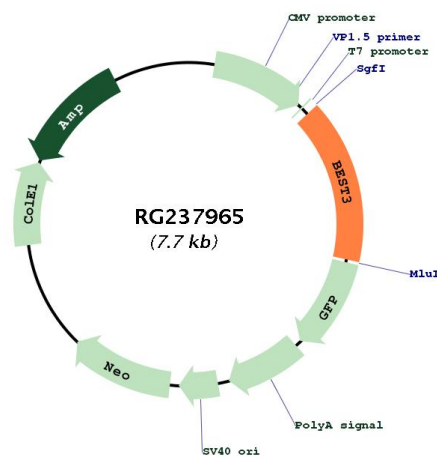
MTVTYSSKVANATFFGFHRLLLKWRGSIYKLLYREFIVFAVLYTAISLVYRLLLTVGQKRYFEKLSIYC
 DRYAEQIPVTFVLGFYVTLVNRWVNQFVNLWPDRLMFLISSVHGSDEHGRLLRRLMRYVNLTSLL
 IFRSVSTAVYKRFPMTMDHVVEAGFMTTDERKLFNHLKSPHLKYWVPFIWFGNLTAKARNEGRIRDSVDL
 QSLMTEMNRYRWCSSLFGYDVGWGIPLVYTQVVTLAVYTFVFFACLIQRQFLDPTKGYAGHDLDIYPIF
 TLLQFFFYAGWLKVAEQLINPFGEDDDDFETNWCIDRNLQVSLLAVDEMHMSLPKMKKDIYWDDSAARP
 PYTLAAADYCI PSFLGSTVQMGKQMPKNEWKMEDIKIPLPQPQFQCAKSDPGG
TRTRPLEME SDE SGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
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 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_001282614
ORF Size:	1194 bp
OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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).
RefSeq:	NM_001282614.1 , NP_001269543.1
RefSeq Size:	1607 bp
RefSeq ORF:	1197 bp
Locus ID:	144453
UniProt ID:	Q8N1M1
Cytogenetics:	12q15
Protein Families:	Ion Channels: Other, Transmembrane
MW:	47 kDa
Gene Summary:	BEST3 belongs to the bestrophin family of anion channels, which includes BEST1 (MIM 607854), the gene mutant in vitelliform macular dystrophy (VMD; MIM 153700), and 2 other BEST1-like genes, BEST2 (MIM 607335) and BEST4 (MIM 607336). Bestrophins are transmembrane (TM) proteins that share a homology region containing a high content of aromatic residues, including an invariant arg-phe-pro (RFP) motif. The bestrophin genes share a conserved gene structure, with almost identical sizes of the 8 RFP-TM domain-encoding exons and highly conserved exon-intron boundaries. Each of the 4 bestrophin genes has a unique 3-prime end of variable length (Stohr et al., 2002 [PubMed 12032738]; Tsunenari et al., 2003 [PubMed 12907679]).[supplied by OMIM, Mar 2008]