

Product datasheet for **RG235461**

Bestrophin 3 (BEST3) (NM_001282616) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Bestrophin 3 (BEST3) (NM_001282616) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: Bestrophin 3
Synonyms: VMD2L3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG235461 representing NM_001282616.
 Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**GCGATCGCC**
ATGTTCTCATCTCTAGCAGTGTTCACGGAAGCGACGAGCACGGGCGCCTGCTTAGAAGGACGCTGATG
CGCTACGTCAATCTCACCTCCCTGCTCATCTTTCGCTCGGTGAGCACTGCTGTGTACAAAAGATTCC
ACAATGGACCACGTGGTTGAAGCAGAAAGAAGTGGCATGAAACCCATTCTGCCTTCAAGTTTTGAGATG
CAGAGCTTT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence: >Peptide sequence encoded by RG235461
 Blue=ORF Red=Cloning site Green=Tag(s)

MFLISSSVHGSDEHGRLLRRLMRYVNL TSLIFRSVSTAVYKRFPTMDHVVEAERTGMKPILPSSFEM
QSF
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

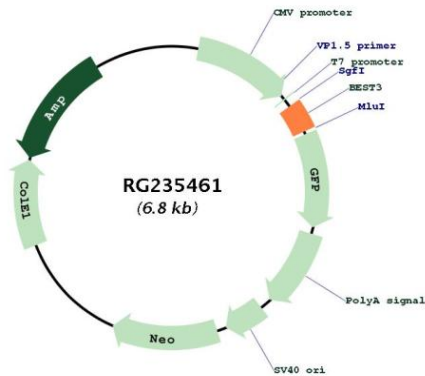
Restriction Sites: SgfI-MluI



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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]

Product images:


Circular map for RG235461