

Product datasheet for **RG218758**

Bestrophin 2 (BEST2) (NM_017682) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bestrophin 2 (BEST2) (NM_017682) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Bestrophin 2
Synonyms:	VMD2L1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG218758 representing NM_017682
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGACCGTCACCTACACAGCCCGAGTGGCGAACGCCCGCTTCGGTGGCTTCTCCAGCTGCTGCTACTGT
 GCGTGGGAGCATCTACAACTCCTGTGGCGAGAGCTGCTCTGCTTCTTGGTTCTACATGGCGCTGAG
 TGCTGCCTACCGCTTTGTGCTGACCGAAGGGCAGAAGCGCTACTTCGAGAAGCTTGTGATTTATTGTGAC
 CAGTATGCCAGCCTCATCCCTGTCTCCTTCGTGCTTGGCTTTTATGTGACGCTGGTGGTGAACCGCTGGT
 GGAGCCAGTACCTATGCATGCCGCTGCCGACGCGCTCATGTGCGTGGTGGCGGGCACCGTGCACGGACG
 CGACGACCGCGGCCCTCTACCGGCGCACACTCATGCGCTACGCAGGGCTCTCGGCCGTGCTCATCCTG
 CGCTCCGTCAGCACCGCGGTGTTCAAGCGCTTCCCACCATAGACCACGTGGTGGAGGCTGGGTTTATGA
 CCCGCGAGGAGCGCAAGAAGTTTAAAACCTGAACTCATCTACAACAAGTACTGGTGCCTGCGTCTG
 GTTCTCCAACCTGGCGGCACAGGCCGACGCGAGGGCCGATCCGCGACAACAGCGCCCTTAAGCTGCTG
 CTCGAGGAGCTGAATGTTTTTCGGGGCAAATGTGGAATGCTTTTCACTATGACTGGATTAGCGTACCCC
 TCGTGTACACGCAGGTGGTGACCATCGCACTGTACAGCTACTTCTGGCTTGCCCTATTGGTTCGCCAGTT
 CCTGGACCCGGCTCAGGGTTACAAAGACCACGACCTAGACCTGTGTGTGCCCATCTTACCCCTTTGCGAG
 TTCTTCTTCTACGCCGGCTGGCTCAAGGTAGCTGAGCAGCTCATCAACCCCTTCGGAGAGGACGATGATG
 ACTTTGAGACCACTTTCTGATCGATAGAACTTCCAGGTGTCCATGCTGGCAGTGGACGAGATGTATGA
 TGACCTGGCTGTGCTGGAGAAGGACTTGTACTGGGATGCAGCCGAGGCTCGCGCCCATACACAGCGGCT
 ACTGCTTCCAGCTGCGGCAGCCTTCTTCCAGGGCTCCACCTTTGACATCACGCTGGCCAAAGAAGACA
 TGCAGTTCCAGCGCTGGACGGCTTGGATGGACCGATGGGAGAGGCGCCCGCGACTTCTGCAGCGCT
 CCTGCCGCGGGCGCGGCATGGTTCGCGGAGGCCCGCTGGGCGCGCCCTGTCTTTCTACTCCGCAAG
 AACAGCTGCGTGTGCGAGGCGTCTACTGGGCGCAGCTGCTCATGCGCGGTTGTCCCGAAGGCGCGGCC
 CGGAGTGCAGCTGCGGGGACCGCTGCTCGACCCGCGCTGCCGAGCCCGAGGCCCGCCCTGCGGG
 TCCCGAACCGTTACCCTCATCCCTGGGCTGTGAGCCCTTTCAGCATCGTGACCATGCCGGGCCCGG
 GGTCCGGCGCCACCCTGGCTGCCAGCCCTATTGGCGAGGAGGAGAATCTGGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218758 representing NM_017682
 Red=Cloning site Green=Tags(s)

MTVYTYARVANARFGGFSQLLLLWRGSIYKLLWRELLCFLGFYMLSAAYRFVLTEGQKRYFEKLVIIYCD
 QYASLIPVSFVLGFYVTLVNRWWSQYLCMLPDALMCVVAGTVHGRDDRGLYRRITLMRYAGLSAVLIL
 RSVSTAVFKRFPTIDHVVEAGFMTREERKKFENLNSSYNKYWVPCVWFSNLAAQARREGRIKRNLSALKLL
 LEELNVFRGKCGMLFHYDWSVPLVYTVVITIALYSYFLACLIGRQFLDPAQGYKDHLDLVPIFTLLQ
 FFFYAGWLKVAEQLINPFGEDDDDFETNFLIDRNQVSMMLAVDEMYDDLAVLEKDLWDAAEARAPYTAA
 TVFQLRQPSFQGSTFDITLAKEDMQFQRLDGLDGPMEAPGDFLQRLLPAGAGMVAGGPLGRRLSFLLRK
 NSCVSEASTGASCSCAVVPEGAAPCESCGDPLLDPLPEPEAPPAGPEPLTIPGPVEPFSIVTMPGPR
 GPAPPWLPSPIGEEEEENLA

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_017682

ORF Size: 1527 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

RefSeq: [NM_017682.3](#)

RefSeq Size: 1924 bp

RefSeq ORF: 1530 bp

Locus ID: 54831

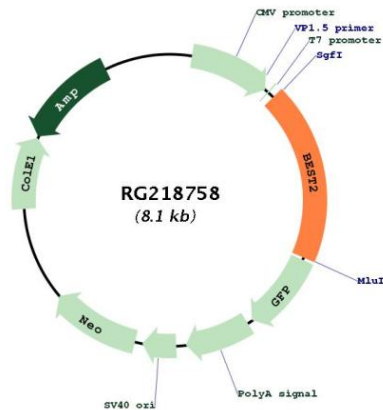
UniProt ID: [Q8NFU1](#)

Cytogenetics: 19p13.13

Protein Families: Transmembrane

Gene Summary: This gene is a member of the bestrophin gene family of anion channels. Bestrophin genes share a similar gene structure with highly conserved exon-intron boundaries, but with distinct 3' ends. Bestrophins are transmembrane proteins that contain a homologous region rich in aromatic residues, including an invariant arg-phe-pro motif. Mutation in one of the family members (bestrophin 1) is associated with vitelliform macular dystrophy. The bestrophin 2 gene is mainly expressed in the retinal pigment epithelium and colon. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG218758