

## Product datasheet for **SC304510**

### Bestrophin 2 (BEST2) (NM\_017682) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bestrophin 2 (BEST2) (NM_017682) Human Untagged Clone
Tag:	Tag Free
Symbol:	Bestrophin 2
Synonyms:	VMD2L1
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_017682 edited  
 ATGACCGTCACCTACACAGCCCGAGTGGCGAACGCCCGCTTCGGTGGCTTCTCCCAGCTG  
 CTGCTACTGTGGCGTGGGAGCATCTACAACTCCTGTGGCGAGAGCTGCTCTGCTTCCTT  
 GGGTTCTACATGGCGCTGAGTGTGCTACCGCTTTGTGCTGACCGAAGGGCAGAAGCGC  
 TACTTCGAGAAGCTTGTGATTTATTGTGACCAGTATGCCAGCCTCATCCCTGTCTCCTTC  
 GTGCTTGGCTTTTATGTGACGCTGGTGGTGAACCGCTGGTGGAGCCAGTACCTATGCATG  
 CCGCTGCCGACGCGCTCATGTGCGTGGTGGCGGGCACCCTGCACGGACGCGACGACCGC  
 GGCCGCTCTACCGGCGCACACTCATGCGCTACGCAGGGCTCTCGGCCGTGCTCATCCTG  
 CGCTCCGTGAGCACCAGCGGTGTTCAAGCGCTTCCCACCATAGACCACGTGGTGGAGGCT  
 GGGTTTATGACCCGCGAGGAGCGCAAGAAGTTTAAAACCTGAACTCATCCTACAACAAG  
 TACTGGGTGCCCTGCGTCTGGTTCTCAAACCTGGCGGCACAGGCCGACGCGAGGGCCGC  
 ATCCGCGACAACAGCGCCCTTAAGCTGTGCTCGAGGAGCTGAATGTTTTTCGGGGCAAA  
 TGTGGAATGCTCTTTCACTATGACTGGATTAGCGTACCCCTCGTGTACACGCAGGTGGTG  
 ACCATCGCACTGTACAGCTACTTCTGGCTTGCCTCATTGGTCCGCAGTTCTGGACCCG  
 GCTCAGGGTTACAAGACCACGACCTAGACCTGTGTGCCCCATTTACCCCTCTTGCA  
 TTCTTCTTACGCCGGCTGGCTCAAGGTAGCTGAGCAGCTCATCAACCCCTTCGGAGAG  
 GACGATGATGACTTTGAGACCACTTTCTGATCGATAGAACTCCAGGTGTCCATGCTG  
 GCAGTGGACGAGATGTATGATGACCTGGCTGTGCTGGAGAAGGACTTGTACTGGGATGCA  
 GCCGAGGCTCGCGCCCATACACAGCGGCTACTGTCTTCCAGCTGCGGCAGCCTTCTTCC  
 CAGGGCTCCACCTTTGACATCACGCTGGCCAAAGAAGACATGCAGTTCCAGCGGCTGGAC  
 GGCTTGGATGGACCGATGGGAGAGGGCGCCGGCGACTTCTGCAGCGCCTCCTGCCGGCG  
 GGCGCGGGCATGGTCCGCGGAGGCCCGCTGGGCCGGCGCCTGTCTTTCTACTCCGCAAG  
 AACAGTGCGTGTGCGAGGCGTCTACTGGGGCCAGCTGCTCATGCGCGGTTGTCCCCGAA  
 GGCGCGGGCCCGAGTGCAGTGCGGGGACCCGCTGCTCGACCCCGCCCTGCCGGAGCCC  
 GAGGCCCGCCCTGCGGGTCCCGAACCGCTTACCCTCATCCCTGGGCCTGTGAGCCC  
 TTCAGCATCGTGACCATGCCCGGGCCCCGGGTCCGGCGCACCTGGCTGCCAGCCCT  
 ATTGGCGAGGAGGAGAATCTGGCCTGA



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<b>3' Read Nucleotide Sequence:</b>	>Forward primer walk for NM_017682 unedited NAATGCTCCTTTCTATGACTGGCTTATCGTACCCCTCGTGACACGCAAGTGGTGACCA TCGCACTGTACAGCTACTTCTGGCTTGCCTCATTGGTCGCCAGTTCTGGACCCGGCTC ACGGTTACAAAGACCACGACCTATACCTGTGTGTGCCATCTTACCCTCTTGCACTTCT TCTTCTACGCCGGCTGGCTCAAGGTAGCTGAGCAGCTCATCAACCCCTTCGGAGAGGACG ATGATGACTTTGAGACCAACTTTCTGATCGATAGAACTTCCAGGTGCCATGCTGGCAG TGGACGAGATGTATGATGACCTGGCTGTGCTGGAGAAGGACTTGTACTGGGATGCAGCCG AGGCTCGCGCCCATACACAGCGGCTACTGTCTTCCAGCTGCGGCAGCCTTCCTTCCAGG GCTCCACCTTTGACATCACGCTGGCCAAAGAAGACATGCAGTTCCAGCGGCTGGACGGCT TGGATGGACCGATGGGAGAGGCGCCCGGCGACTTCTGCAGCGCCTCCTGCCGGCGGGCG CGGGCATGGTCGCGGGAGGCCCGCTGGGCCGGCGCCTGCTCTTCTACTCCGAAGAACA GCTGCGTGTGCGAAGCGTCTACTGGGGCCAGCTGCTCATGCGCGGTTGTCCCGAAGGCG CGGCCCGGAGTGCAGCTTGCGGGGACCCGCTGCTCGAACCCCGGCTGGCGGACCCCGA AGCCCCCGCCCCCTGGGGTCCCGAAACCGCTTACCCTAAGCCTGGGGCCGGTGGAGCC CTTGCACATCGAGGACATGCCCGGGCCCCGGGGTACCGGGCCCCCCTGGCTGCCCAA CCCTTATTGGGGAGGGAGAGAGAAAACCCGCCCGAATCAAGAACACATGGAGGAAAG GGA
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_017682
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>OTI Annotation:</b>	There is 1 nucleotide difference between the OriGene clone and the NCBI reference ORF. These result in the substitution of 1 aa and insertion of 1 aa.
<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_017682.1</a> , <a href="#">NP_060152.1</a>
<b>RefSeq Size:</b>	1861 bp
<b>RefSeq ORF:</b>	1401 bp
<b>Locus ID:</b>	54831
<b>UniProt ID:</b>	<a href="#">Q8NFU1</a>
<b>Cytogenetics:</b>	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]