

Product datasheet for **SC325224**

Bestrophin (BEST1) (NM_001139443) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Bestrophin (BEST1) (NM_001139443) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Bestrophin |
| Synonyms: | ARB; BEST; Best1V1Delta2; BMD; RP50; TU15B; VMD2 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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Fully Sequenced ORF: >OriGene sequence for NM_001139443 edited
 CACCAGCCTAGTCGCCAGACCTTCTGTGGGATCATCGGACCCACCTGGAACCCACCTGC
 TGGCCCTCACGGAAGAACAACAGCTGATGTTTGAGAACTGACTCTGTATTGCGACAGCT
 ACATCCAGCTCATCCCCATTTCCCTTCGTGCTGGGCTTCTACGTGACGCTGGTTCGTGACCC
 GCTGGTGAACAGTACGAGAACCTGCCGTGGCCCGACCGCTCATGAGCCTGGTGTGCG
 GCTTCGTGAAGCAAGGACGAGCAAGGCCGGCTGCTGCGGCGCACGCTCATCCGCTACG
 CCTAACCTGGGCAACGTGCTCATCTGCGCAGCGTCAGCACCGCAGTCTACAAGCGCTTCC
 CCAGCGCCAGCACCTGGTGCAAGCAGGCTTTATGACTCCGGCAGAACACAAGCAGTTGG
 AGAAACTGAGCCTACCACACAACATGTTCTGGGTGCCCTGGGTGTGGTTTGCCAACCTGT
 CAATGAAGGCGTGGCTTGGAGGTCGAATCCGGGACCTATCCTGCTCCAGAGCCTGCTGA
 ACGAGATGAACACCTTGGTACTCAGTGTGGACACCTGTATGCCTACGACTGGATTAGTA
 TCCCACTGGTGTATACACAGGTGGTACTGTGGCGGTGTACAGCTTCTTCTGACTTGTG
 TAGTTGGGCGGCGAGTTTCTGAACCCAGCCAAGGCCACCTGGCCATGAGCTGGACCTCG
 TTGTGCCCGTCTTACGTTCTTCTGAGTTCTTCTATGTTGGCTGGCTGAAGGTGGCAG
 AGCAGCTCATCAACCCCTTTGGAGAGGATGATGATGATTTTGGAGCAACTGGATTGTGCG
 ACAGGAATTTGCAGGTGTCCCTGTTGGCTGTGGATGAGATGCACCAAGGACCTGCCTCGGA
 TGGAGCCGGACATGTAAGGAAATAGCCCGAGCCACAGCCCCCTACACAGCTGCTTCCG
 CCCAGTTCCGTCGAGTCTCCTTTATGGGCTCCACCTTCAACATCAGCCTGAACAAAGAGG
 AGATGGAGTTCAGCCCAATCAGGAGGACGAGGAGGATGCTCACGCTGGCATCATTGGCC
 GCTTCTAGGCCCTGCAGTCCCATGATCACCATCCTCCCAGGGCAAACCAAGGACCAAAAC
 TACTGTGGCCCAAGAGGGAATCCCTTCTCCACGAGGGCCTGCCAAAAACCACAAGGCAG
 CCAAACAGAACGTTAGGGGCCAGGAAGACAACAAGGCCTGGAAGCTTAAGGCTGTGGACG
 CCTTCAAGTCTGCCCCACTGTATCAGAGGCCAGGCTACTACAGTGCCCCACAGACGCCCC
 TCAGCCCCACTCCATGTTCTTCCCTAGAACCATCAGCGCCGTCAAAGCTTACAGTG
 TCACAGGCATAGACACCAAGACAAAAGCTTAAAGACTGTGAGTTCTGGGGCCAAAAAAA
 GTTTTGAATTGCTCTCAGAGAGCGATGGGGCCTTGATGGAGCACCCAGAAGTATCTCAAG
 TGAGGAGGAAAACGTGGAGTTAACCTGACGGATATGCCAGAGATCCCCGAAAATCACC
 TCAAAGAACCTTTGGAACAATCACAACCAACATACACTACACTCAAAGATCACATGG
 ATCCTTATTGGGCCTTGGAAAACAGGTCTGTCTCCACCTGAACCAGGGGCACTGCATTG
 CCCTGTGCCCCACCCAGCTTCCCTTGTCTGAGCCTACCCTTCTCCACAATTTCTAG
 GGTTCATCACTGCCAGAGCACACTGGACCTACGCCAGCACTGGCTTGGGGTATATACT
 TGGCCACCTTACAGGGATCCTAGGGAAGTGTTCGGGACCTTTTCTCACTTACCCTGGT
 ATCACCCGGAAGACTTCTTGGGACCAGGTGAAGGAAGATGAGGTTGTGCTGACCAGAATG
 CTGCTGGAGAACTGCCCCAGGGCTGACAGGCCAGGCTTAGCTGAGCAGATGTTATCACTG
 GCCCAACTTACTTTGAGCAAGGGTGGCTGACCCAAAACCATGAGGTGGCAGTCAGCTGG
 ATGACAGATGAACACTTCCCCATAACTATTTAGGGTAGTACCCAAGCACTACAGGAAAAG
 GGTGGCAGGAAGTGCCTCACTCCTAGGAAGTGGTAGATGGTGGAGTTGAGGGTGTCCAGC
 GCCCTTAGGTCAATTTCTCACTGCCTGGGAACCTACCAAAAATACTTCTTGTCTCCTTGG
 GGTGAGCCAAAGCTGTACAAAATCAGATATTTCCCTTTATTTCCAGATTTCTTGGACAC
 TTTCAACCAATTATAAACACCCCACTTACGCCCAATCAGTGGGAGGAAGTGAACCTTC
 CCTTTTAA
 AA

Restriction Sites: Please inquire
ACCN: NM_001139443
Insert Size: 2400 bp

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| OTI Disclaimer: | 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). |
| OTI Annotation: | This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA. |
| 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: | <ol style="list-style-type: none"> 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: | <u>NM_001139443.1</u> , <u>NP_001132915.1</u> |
| RefSeq Size: | 2852 bp |
| RefSeq ORF: | 1815 bp |
| Locus ID: | 7439 |
| UniProt ID: | <u>O76090</u> |
| Cytogenetics: | 11q12.3 |
| Protein Families: | Druggable Genome, Ion Channels: Other, Transmembrane |
| Gene Summary: | <p>This gene encodes a member of the bestrophin gene family. This small gene family is characterized by proteins with a highly conserved N-terminus with four to six transmembrane domains. Bestrophins may form chloride ion channels or may regulate voltage-gated L-type calcium-ion channels. Bestrophins are generally believed to form calcium-activated chloride-ion channels in epithelial cells but they have also been shown to be highly permeable to bicarbonate ion transport in retinal tissue. Mutations in this gene are responsible for juvenile-onset vitelliform macular dystrophy (VMD2), also known as Best macular dystrophy, in addition to adult-onset vitelliform macular dystrophy (AVMD) and other retinopathies. Alternative splicing results in multiple variants encoding distinct isoforms. [provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (2) encodes the longest isoform (2).</p> |