

# Product datasheet for AR51420PU-N

## Bestrophin-1 (292-585, His-tag) Human Protein

### **Product data:**

#### OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

| Product Type:                            | Recombinant Proteins   |
|--|--|
| Description:                             | Bestrophin-1 (292-585, His-tag) human protein, 0.5 mg  |
| Species:                                 | Human  |
| Expression Host:                         | E. coli  |
| Expression cDNA Clone<br>or AA Sequence: | MGSSHHHHHH SSGLVPRGSH MGSEQLINPF GEDDDDFETN WIVDRNLQVS LLAVDEMHQD<br>LPRMEPDMYW NKPEPQPPYT AASAQFRRAS FMGSTFNISL NKEEMEFQPN QEDEEDAHAG<br>IIGRFLGLQS HDHHPPRANS RTKLLWPKRE SLLHEGLPKN HKAAKQNVRG QEDNKAWKLK<br>AVDAFKSAPL YQRPGYYSAP QTPLSPTPMF FPLEPSAPSK LHSVTGIDTK DKSLKTVSSG AKKSFELLSE<br>SDGALMEHPE VSQVRRKTVE FNLTDMPEIP ENHLKEPLEQ SPTNIHTTLK DHMDPYWALE NRDEAHS |
| Tag:                                     | His-tag  |
| Predicted MW:                            | 36 kDa   |
| Concentration:                           | lot specific   |
| Purity:                                  | >90% by SDS - PAGE   |
| Buffer:                                  | Presentation State: Purified<br>State: Liquid purified protein<br>Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol   |
| Preparation:                             | Liquid purified protein  |
| Storage:                                 | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing.  |
| Stability:                               | Shelf life: one year from despatch.  |
| RefSeq:                                  | <u>NP 001132915</u>  |
| Locus ID:                                | 7439   |
| UniProt ID:                              | <u>076090</u>  |
| Cytogenetics:                            | 11q12.3  |
| Synonyms:                                | ARB; BEST; Best1V1Delta2; BMD; RP50; TU15B; VMD2   |

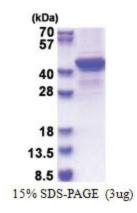


This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

|          | Bestrophin-1 (292-585, His-tag) Human Protein – AR51420PU-N   |
|----------|---|
| Summary: | This gene encodes a member of the bestrophin gene family. This small gene family is<br>characterized by proteins with a highly conserved N-terminus with four to six<br>transmembrane domains. Bestrophins may form chloride ion channels or may regulate<br>voltage-gated L-type calcium-ion channels. Bestrophins are generally believed to form<br>calcium-activated chloride-ion channels in epithelial cells but they have also been shown to<br>be highly permeable to bicarbonate ion transport in retinal tissue. Mutations in this gene are<br>responsible for juvenile-onset vitelliform macular dystrophy (VMD2), also known as Best<br>macular dystrophy, in addition to adult-onset vitelliform macular dystrophy (AVMD) and other<br>retinopathies. Alternative splicing results in multiple variants encoding distinct isoforms.<br>[provided by RefSeq, Nov 2008] |

Protein Families: Druggable Genome, Ion Channels: Other, Transmembrane

# **Product images:**



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2022 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US