Recombinant Full Length Human BEST1 Protein, GST-tagged

Cat. No. BEST1-1573HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BEST1 full-length ORF (AAH41664.1, 1 a.a. - 604 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	604 amino acids
Description	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
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	95.5 kDa
AA Sequence	MFEKLTLYCD SYIQLIPISF VLGFYVTLVV TRWWNQYENL PWPDRLMSLV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	SGFVEGKDEQ GRLLRRTLIR YANLGNVLIL RSVSTAVYKR FPSAQHLVQA GFMTPAEHKQ LEKLSLPHNM FWVPWVWFAN LSMKAWLGGR IRDPILLQSL LNEMNTLRTQ CGHLYAYDWI SIPLVYTQVV TVAVYSFFLT CLVGRQFLNP AKAYPGHELD LVVPVFTFLQ FFFYVGWLKV AEQLINPFGE DDDDFETNWI VDRNLQVSLL AVDEMHQDLP RMEPDMYWNK PEPQPPYTAA SAQFRRVSFM GSTFNISLNK EEMEFQPNQE DEEDAHAGII GRFLGLQSHD HHPPRANSRT KLLWPKRESL LHEGLPKNHK AAKQNVRGQE DNKAWKLKAV DAFKSAPLYQ RPGYYSAPQT PLSPTPMFFP LEPSAPSKLH SVTGIDTKDK SLKTVSSGAK KSFELLSESD GALMEHPEVS QVRRKTVEFN LTDMPEIPEN HLKEPLEQSP TNIHTTLKDH MDPYWALENR SVLHLNQGHC IALCPTPASL ALSLPFLHNF LGFHHCQSTL DLRPALAWGI YLATFTGILG KCSGPFLTSP WYHPEDFLGP GEGR
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	BEST1 bestrophin 1 [Homo sapiens]
Official Symbol	BEST1
Synonyms	BEST1; bestrophin 1; vitelliform macular dystrophy 2 , VMD2; bestrophin-1; BEST; Best disease; BMD; vitelliform macular dystrophy protein 2; ARB; RP50; VMD2; TU15B
Gene ID	7439
mRNA Refseq	NM_001139443
Protein Refseq	NP_001132915

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MIM	607854
UniProt ID	O76090

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