

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 PWPDRMLSLV

 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
 GFMPAEHKQ LEKLSLPHNM FWVPWVWFAN LSMKAWLGGR IRDPILLQSL
 LNEMNTLRTQ CGHLYAYDWI SIPLVYTQVV TVAVYSFFLT CLVGRQFLNP
 AKAYPGHELD LVVPVFTFLQ FFFYVGWLKV AEQLINPFGE DDDDFETNWI
 VDRNLQVSL AVDEMHQDLP RMEPDMYWNK PEPQPPYTAA SAQFRRVSFM
 GSTFNISLNK EEMEFQPNQE DEEDAHAGII GRFLGLQSHD HHPPRANSRT
 KLLWPKRESL LHEGLPKNHK AAKQNVRGQE DNKAWKLVAV DAFKSAPLYQ
 RPYYSAPQT PLSPTPMFFP LEPSAPSKLH SVTGIDTKDK SLKTVSSGAK
 KSFELLESSE 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
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UniProt ID	O76090
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