

Recombinant Human BEST1 Protein, GST-tagged

Cat. No. BEST1-196H **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	Wheat Germ
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	MFEKLTLYCDSYIQLIPISFVLGFYVTLVVTRWWNQYENLPWPDRMLSLVSGFVEGK DEQGRLLRRTLIRYANLGNVLILRSVSTAVYKRFPSAQHLVQAGFMTPAEHKQLEKL SLPHNMFVWPVWVWFANLSMKAWLGGRIRDPIQLQSLNEMNLTQCGHLYAYDW

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ISIPLVYTQVVTVAVYSFFLTCLVGRQFLNPAKAYPGHELDLVVPVFTFLQFFFYVGVW
 LKVAEQLINPFGEDDDDFETNWIVDRNLQVSL LAVDEMHQDLPRMEPDMYWNKPE
 PQPPYTAASAQFRRVFSFMGSTFNISLNKEEMEFQPNQEDEEDAHAGIIGRFLGLQSH
 DHHPPRANSRTKLLWPKRESLLHEGLPKNHKAAKQNVRGQEDNKAWKLVKAVDAFK
 SAPLYQRPGYYSAPQTPLSPTPMFFPLEPSAPSKLHSVTGIDTKDKSLKTVSSGAKK
 SFELLSESDGALMEHPEVSQVRRKTVEFNLTDMPEIPENHLKEPLEQSPTNIHTTLKD
 HMDPYWALENRSVLHLNQGHCIALCPTPASLALSLPFLHNFLGFHHCQSTLDRPAL
 AWGIYLATFTGILGKCSGPFLTSPWYHPEDFLGPGEGR

Notes	Best use within three months from the date of receipt of this protein.
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

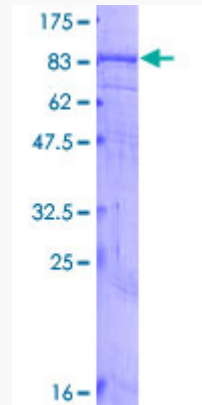
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MIM 607854

UniProt ID O76090



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