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Product datasheet for RC238907

Bestrophin 3 (BEST3) (NM_001282613) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Bestrophin 3 (BEST3) (NM_001282613) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BEST3
Synonyms:	VMD2L3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin

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ORF Nucleotide Sequence:

>RC238907 representing NM_001282613
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTTCCTCATCTCTAGCAGTGTTCACGGAAGCGACGAGCACGGGCGCCTGCTTAGAAGGACGCTGATGC
GCTACGTCAATCTCACCTCCCTGCTCATCTTTCGCTCGGTGAGCACTGCTGTGTACAAAAGATTTCCCAC
AATGGACCACGTGGTTGAAGCAGGTTTTATGACAACAGATGAAAGGAAATTATTCAACCACCTCAAGTCT
CCTCATCTGAAATATTGGGTTCCATTCATCTGGTTTGGAAATCTTGCAACTAAAGCCCGGAATGAAGGTA
GAATCAGAGACAGTGTTGATCTGCAATCATTGATGACTGAAATGAATCGATACCGCTCTTGGTGCAGCCT
CTTATTCGGTTATGACTGGGTTGGGATTCCGCTGGTTTACACCCAGGTTGTCACTCTTGCTGTCTATACC
TTCTTCTTTGCGTGCCTGATTGGACGCCAGTTTTTGGATCCCACCAAAGGCTACGCAGGGCATGACTTGG
ATCTTTACATTCCCATCTTCACCCTCCTACAATTCTTCTTCTATGCAGGATGGCTTAAGGTAGCAGAGCA
GCTTATCAACCCTTTTGGAGAAGATGATGATGATTTTGAAACTAACTGGTGCATTGACAGAAATTTGCAG
GTCTCTCTTTTAGCTGTGGACGAAATGCACATGAGCTTACCCAAGATGAAGAAGGACATTTACTGGGACG
ATTCTGCTGCTCGCCCACCATACACATTGGCAGCTGCTGACTACTGCATACCCTCATTTCTGGGGTCAAC
AGTCCAGATGGGGCTGTCTGGGTCCGACTTTCCTGACGAGGAGTGGCTGTGGGATTATGAGAAGCATGGC
CATCGGCATTCCATGATAAGAAGAGTCAAGCGGTTCCTGAGTGCCCACGAACACCCCTCCAGCCCCAGAA
GAAGAAGCTACAGGAGGCAGACAAGTGACAGCTCCATGTTCTTACCCCGAGATGACCTCAGCCCAGCCAG
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GAAGGAAGCCCCACGCTGCACTTCAGCATGGGAGAGCTGTCCACCATCAGGGAGACCAGCCAGACAAGCA
CTTTACAGAGCCTGACCCCACAGTCCAGTGTGAGAACTTCCCCCATCAAAATGCCACTGGTACCTGAGGT
ATTGATCACAGCAGCCGAAGCACCAGTGCCCACATCAGGGGGCTACCACCATGATTCCGCTACCTCCATC
TTGAGCTCTGAGTTTACAGGGGTTCAGCCAAGCAAGACTGAGCAGCAGCAGGGCCCCATGGGATCCATCC
TGTCTCCCTCAGAGAAGGAGACACCTCCTGGAGGCCCCAGTCCCCAGACAGTTTCAGCCAGCGCTGAGGA
AAATATATTCAACTGTGAAGAAGACCCTGGTGATACCTTTCTAAAAAGGTGGAGTCTTCCGGGATTCCTG
GGGTCCAGCCACACTTCCCTGGGAAACCTAAGTCCAGACCCCATGAGCTCTCAGCCAGCTCTTTTAATTG
ACACAGAAACATCCTCAGAGATCAGTGGGATCAACATTGTGGCTGGCTCTCGAGTCTCTTCTGATATGCT
GTATTTAATGGAAAACCTGGACACCAAGGAAACAGATATCATAGAGCTGAACAAGGAAACTGAGGAATCA
CCCAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

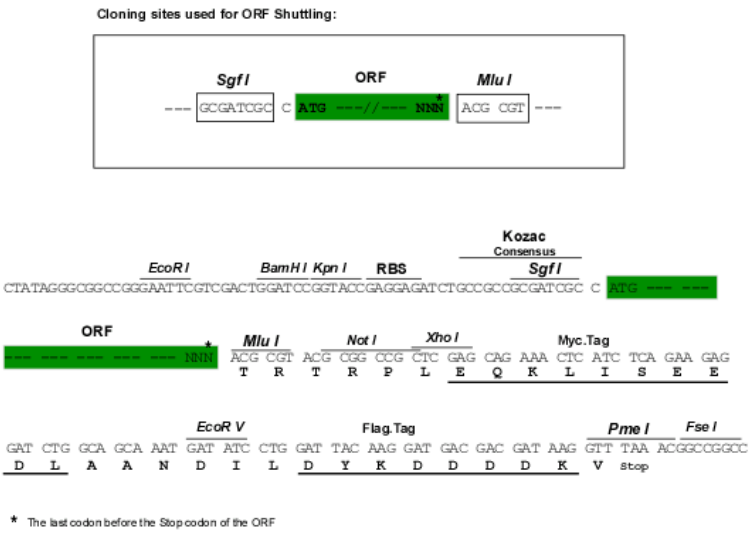
>RC238907 representing NM_001282613
Red=Cloning site Green=Tags(s)

MFLISSSVHGSDEHGRLLRRTLMRYVNLTSLLIFRSVSTAVYKRFPTMDHVVEAGFMTTDERKLFNHLKS
PHLKYWVPFIWFGNLATKARNEGRIRDSVDLQSLMTEMNRYRSWCSLLFGYDWVGIPLVYTQVVTLAVYT
FFFACLIGRQFLDPTKGYAGHDLDLYIPIFTLLQFFFYAGWLKVAEQLINPFGEDDDDFETNWCIDRNLQ
VSLLAVDEMHMSLPKMKKDIYWDDSAARPPYTLAAADYCIPSFLGSTVQMGLSGSDFPDEEWLWDYEKHG
HRHSMIRRVKRFLSAHEHPSSPRRRSYRRQTSDSSMFLPRDDLSPARDLLDVPSRNPPRASPTWKKSCFP
EGSPTLHFSMGELSTIRETSQTSTLQSLTPQSSVRTSPIKMPLVPEVLITAAEAPVPTSGGYHHDSATSI
LSSEFTGVQPSKTEQQQGPMGSILSPSEKETPPGGPSPQTVSASAEENIFNCEEDPGDTFLKRWSLPGFL
GSSHTSLGNLSPDPMSSQPALLIDTETSSEISGINIVAGSRVSSDMLYLMENLDTKETDIIELNKETEES
PK

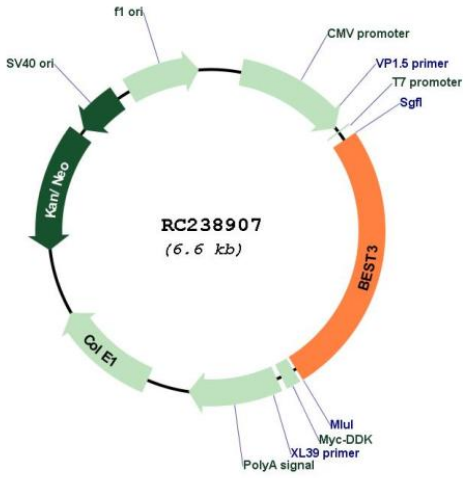
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282613

ORF Size: 1686 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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:	NM_001282613.1, NP_001269542.1
RefSeq Size:	3292 bp
RefSeq ORF:	1689 bp
Locus ID:	144453
UniProt ID:	Q8N1M1
Cytogenetics:	12q15
Protein Families:	Ion Channels: Other, Transmembrane
MW:	63.8 kDa
Gene Summary:	BEST3 belongs to the bestrophin family of anion channels, which includes BEST1 (MIM 607854), the gene mutant in vitelliform macular dystrophy (VMD; MIM 153700), and 2 other BEST1-like genes, BEST2 (MIM 607335) and BEST4 (MIM 607336). Bestrophins are transmembrane (TM) proteins that share a homology region containing a high content of aromatic residues, including an invariant arg-phe-pro (RFP) motif. The bestrophin genes share a conserved gene structure, with almost identical sizes of the 8 RFP-TM domain-encoding exons and highly conserved exon-intron boundaries. Each of the 4 bestrophin genes has a unique 3-prime end of variable length (Stohr et al., 2002 [PubMed 12032738]; Tsunenari et al., 2003 [PubMed 12907679]).[supplied by OMIM, Mar 2008]