

## Product datasheet for **SC336608**

### Bestrophin (BEST1) (NM\_001300787) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Bestrophin (BEST1) (NM_001300787) Human Untagged Clone
Tag:	Tag Free
Symbol:	BEST1
Synonyms:	ARB; BEST; Best1V1Delta2; BMD; RP50; TU15B; VMD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC336608 representing NM\_001300787.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

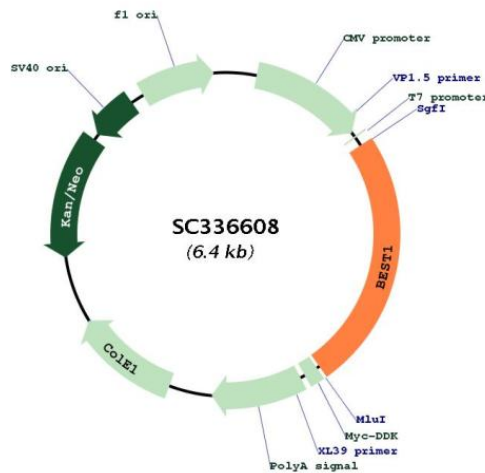
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ATGAGCCTGGTGTGGGCTTCGTGCAAGGCAAGGACGAGCAAGGCCGGCTGCTGCGGCGCACGCTATC
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**Restriction Sites:**

Sgfl-MluI

**Plasmid Map:**



**ACCN:**

NM\_001300787

<b>Insert Size:</b>	1578 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001300787.1</u>
<b>RefSeq Size:</b>	2502 bp
<b>RefSeq ORF:</b>	1578 bp
<b>Locus ID:</b>	7439
<b>UniProt ID:</b>	<u>O76090</u>
<b>Cytogenetics:</b>	11q12.3
<b>Protein Families:</b>	Druggable Genome, Ion Channels: Other, Transmembrane
<b>MW:</b>	60.5 kDa
<b>Gene Summary:</b>	<p>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. [provided by RefSeq, Nov 2008]</p> <p>Transcript Variant: This variant (4) differs in the 3' UTR and coding sequence compared to variant 2. The resulting isoform (4) has a shorter and distinct C-terminus compared to isoform 2.</p>