

### OriGene Technologies, Inc.

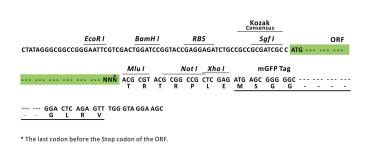
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

# Product datasheet for RC214156L4

### Bestrophin (BEST1) (NM\_004183) Human Tagged Lenti ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Bestrophin (BEST1) (NM_004183) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	Bestrophin
Synonyms:	ARB; BEST; Best1V1Delta2; BMD; RP50; TU15B; VMD2
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC214156).
<b>Restriction Sites:</b>	Sgfl-Mlul
Cloning Scheme:	
	Cloning sites used for ORF Shuttling:
	Sgf1 ORF Mlu1



ACCN: ORF Size: NM\_004183 1755 bp



View online »

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

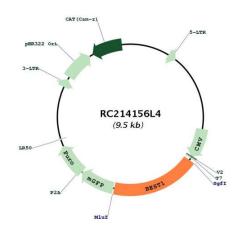
	Bestrophin (BEST1) (NM_004183) Human Tagged Lenti ORF Clone – RC214156L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Me	<ul> <li>thod: 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> </ul>
RefSeq:	<u>NM 004183.2</u>
RefSeq Size:	2673 bp
RefSeq ORF:	1758 bp
Locus ID:	7439
UniProt ID:	<u>O76090</u>
Cytogenetics:	11q12.3
Domains:	DUF289
Protein Families:	Druggable Genome, Ion Channels: Other, Transmembrane
MW:	67.5 kDa

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US 

### Sestrophin (BEST1) (NM\_004183) Human Tagged Lenti ORF Clone – RC214156L4

# Gene Summary:This gene encodes a member of the bestrophin gene family. This small gene family is<br/>characterized by proteins with a highly conserved N-terminus with four to six<br/>transmembrane domains. Bestrophins may form chloride ion channels or may regulate<br/>voltage-gated L-type calcium-ion channels. Bestrophins are generally believed to form<br/>calcium-activated chloride-ion channels in epithelial cells but they have also been shown to<br/>be highly permeable to bicarbonate ion transport in retinal tissue. Mutations in this gene are<br/>responsible for juvenile-onset vitelliform macular dystrophy (VMD2), also known as Best<br/>macular dystrophy, in addition to adult-onset vitelliform macular dystrophy (AVMD) and other<br/>retinopathies. Alternative splicing results in multiple variants encoding distinct isoforms.<br/>[provided by RefSeq, Nov 2008]

# **Product images:**



Circular map for RC214156L4

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2023 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US