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Product datasheet for RC224196

BAI1 (ADGRB1) (NM_001702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	BAI1 (ADGRB1) (NM_001702) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	BAI1
Synonyms:	BAI1; GDAIF
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC224196 representing NM_001702
Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RC224196 representing NM_001702
Red=Cloning site Green=Tags(s)

MRGQAAAPGPVWILAPLLLLLLLLGRRARAAAGADAGPGPEPCATLVQGKFFGYFSAAAVFPANASRCSW
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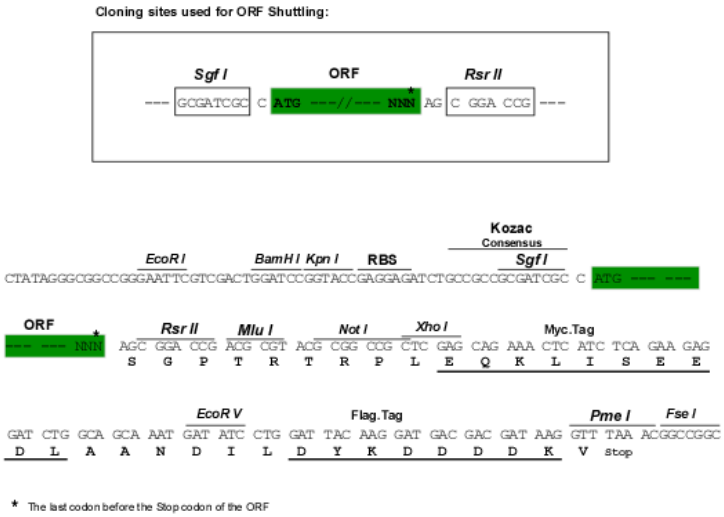
Chromatograms: https://cdn.origene.com/chromatograms/mk8007_f08.zip

Restriction Sites: SgfI-RsrII

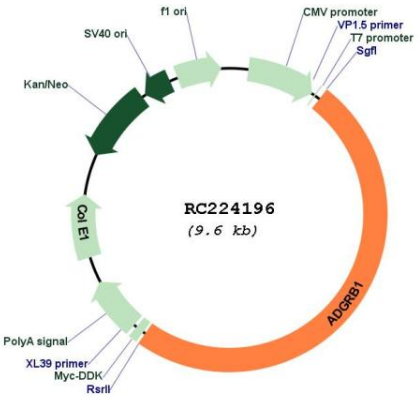
Cloning Scheme:



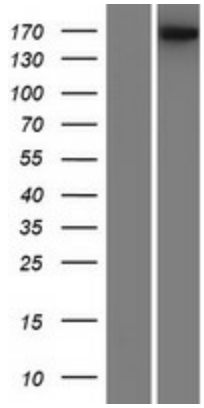
ACCN: NM_001702

ORF Size:	4752 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_001702.3
RefSeq Size:	5535 bp
RefSeq ORF:	4755 bp
Locus ID:	575
UniProt ID:	O14514
Cytogenetics:	8q24.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	p53 signaling pathway
MW:	173.5 kDa
Gene Summary:	Angiogenesis is controlled by a local balance between stimulators and inhibitors of new vessel growth and is suppressed under normal physiologic conditions. Angiogenesis has been shown to be essential for growth and metastasis of solid tumors. In order to obtain blood supply for their growth, tumor cells are potently angiogenic and attract new vessels as results of increased secretion of inducers and decreased production of endogenous negative regulators. BAI1 contains at least one 'functional' p53-binding site within an intron, and its expression has been shown to be induced by wildtype p53. There are two other brain-specific angiogenesis inhibitor genes, designated BAI2 and BAI3 which along with BAI1 have similar tissue specificities and structures, however only BAI1 is transcriptionally regulated by p53. BAI1 is postulated to be a member of the secretin receptor family, an inhibitor of angiogenesis and a growth suppressor of glioblastomas [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC224196



Western blot validation of overexpression lysate (Cat# [LY419802]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224196 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).