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 RG203007

KAZALD1 (NM_030929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAZALD1 (NM_030929) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	KAZALD1
Synonyms:	BONO1; FKSG28; FKSG40; IGFBP-rP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG203007 representing NM_030929
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGCCGCCGCCGCGGCCCGCAGCTGCCTTGGCGCTGCCTGTGCTCCTGCTACTGCTGGTGGTGCTGA
CGCCGCCCCCGACCGGCGCAAGGCCATCCCCAGGCCCAGATTACCTGCGGCGCGGCTGGATGCGGCTGCT
AGCGGAGGGCGAGGGCTGCGCTCCCTGCCGGCCAGAAGAGTGCGCCGCGCCGCGGGGCTGCCTGGCGGGC
AGGGTGCGCGACGCGTGCGGCTGCTGCTGGGAATGCGCCAACCTCGAGGGCCAGCTCTGCGACCTGGACC
CCAGTGCTCACTTCTACGGGCACTGCGGCGAGCAGCTTGAGTGCCGGCTGGACACAGGCGGCGACCTGAG
CCGCGGAGAGGTGCCGGAACCTCTGTGTGCCTGTCGTTCGCAGAGTCCGCTCTGCGGGTCCGACGGTCAC
ACCTACTCCCAGATCTGCCGCCTGCAGGAGGCGGCCCGCGCTCGGCCCGATGCCAACCTCACTGTGGCAC
ACCCGGGGCCCTGCGAATCGGGGCCCCAGATCGTGTCACATCCATATGACACTTGGAATGTGACAGGGCA
GGATGTGATCTTTGGCTGTGAAGTGTTTGCCTACCCCATGGCCTCCATCGAGTGGAGGAAGGATGGCTTG
GACATCCAGCTGCCAGGGGATGACCCCCACATCTCTGTGCAGTTTAGGGGTGGACCCCAGAGGTTTGAGG
TGACTGGCTGGCTGCAGATCCAGGCTGTGCGTCCCAGTGATGAGGGCACTTACCGCTGCCTTGGCCGCAA
TGCCCTGGGTCAAGTGGAGGCCCCTGCTAGCTTGACAGTGCTCACACCTGACCAGCTGAACTCTACAGGC
ATCCCCCAGCTGCGATCACTAAACCTGGTTCCTGAGGAGGAGGCTGAGAGTGAAGAGAATGACGATTACT
AC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

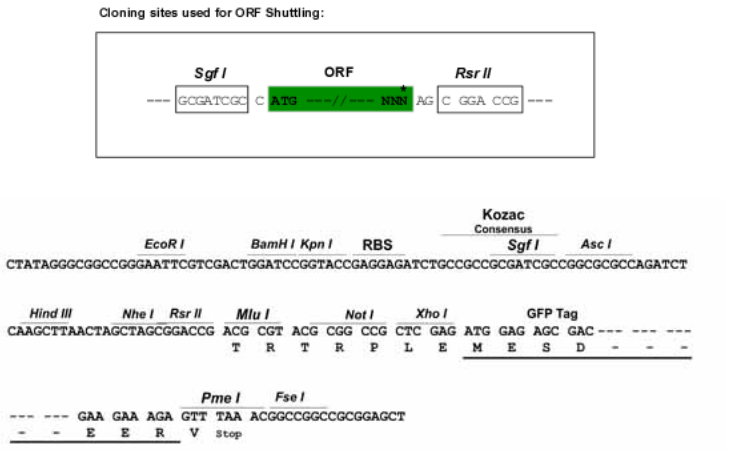
>RG203007 representing NM_030929
Red=Cloning site Green=Tags(s)

MLPPPRPAAALALPVLLLLLVVLTPPPTGARPSPGPDYLRRGWMRLLAEGEGCAPCRPEECAAPRGCLAG
RVRDACGCCWECANLEGQLCDLDPSAHFYGHCGEQLECRLDTGGDLSRGEVPEPLCACRSQSPLCGSDGH
TYSQICRLQEAARARPDANLTVAHPGPCESGPQIVSHPYDTWNVTGQDVIFGCEVFAYPMASIEWRKDGL
DIQLPGDDPHISVQFRGGPQRFEVTGWLQIQAVRPSDEGTYRCLGRNALGQVEAPASLTVLTPDQLNSTG
IPQLRSLNLVPEEEAESEENDDYY

SGPTRTRRLE – GFP Tag – V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_030929

ORF Size: 912 bp

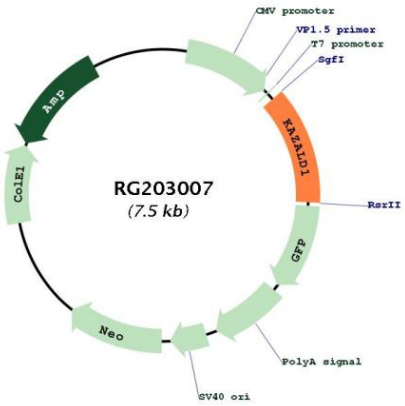
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_030929.5
RefSeq Size:	1933 bp
RefSeq ORF:	915 bp
Locus ID:	81621
UniProt ID:	Q96I82
Cytogenetics:	10q24.31
Domains:	kazal, ig, IGc2, IG
Protein Families:	Secreted Protein
Gene Summary:	This gene encodes a secreted member of the insulin growth factor-binding protein (IGFBP) superfamily. The protein contains an insulin growth factor-binding domain in its N-terminal region, a Kazal-type serine protease inhibitor and follistatin-like domain in its central region, and an immunoglobulin-like domain in its C-terminal region. Studies of the mouse ortholog suggest that this protein may function in bone development and bone regeneration. This gene is hypomethylated and over-expressed in high-grade glioma compared to low-grade glioma, and thus the hypomethylated gene may be associated with cell proliferation and the shorter survival of patients with high-grade glioma. It is also one of numerous genes found to be deleted in a novel 5.54 Mb interstitial deletion, which is associated with multiple congenital anomalies. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016]

Product images:



Circular map for RG203007