

Product datasheet for **RC203007**

KAZALD1 (NM_030929) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAZALD1 (NM_030929) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	KAZALD1
Synonyms:	BONO1; FKSG28; FKSG40; IGFBP-rP10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203007 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGCCCGCCGCGGCCCGCAGCTGCCTTGGCGCTGCCTGTGCTCCTGCTACTGCTGGTGGTGTCTGA
CGCCGCCCCGACCGGCGCAAGGCCATCCCCAGGCCAGATTACCTGCGGCGCGGCTGGATGCGGCTGCT
AGCGGAGGGCGAGGGCTGCGCTCCCTGCCGCCAGAAGAGTGCGCCGCGCCGCGGGGCTGCCTGGCGGGC
AGGGTGC GCGACGCTGCGGCTGCTGCTGGGAATGCGCCAACCTCGAGGGCCAGCTCTGCGACCTGGACC
CCAGTGCTCACTTCTACGGGCACTGCGGCGAGCAGCTTGAGTGCCGGCTGGACACAGGCGGCGACCTGAG
CCGCGGAGAGGTGCCGAACCTCTGTGTGCCTGTGCTTCGAGAGTCCGCTCTGCGGGTCCGACGGTCAC
ACCTACTCCCAGATCTGCCGCTGCAGGAGGCGGCCCGCGCTCGGCCGATGCCAACCTCACTGTGGCAC
ACCCGGGGCCCTGCGAATCGGGGCCCCAGATCGTGTACATCCATATGACACTTGGAATGTGACAGGGCA
GGATGTGATCTTTGGCTGTGAAGTGTTCCTACCCCATGGCCTCCATCGAGTGGAGGAAGGATGGCTTG
GACATCCAGCTGCCAGGGGATGACCCCACTCTGTGCAAGTTAGGGTGGACCCAGAGGTTTGAGG
TGACTGGCTGGCTGCAGATCCAGGCTGTGCGTCCAGTGATGAGGGCACTTACCGCTGCCTTGGCCGCAA
TGCCCTGGGTCAAGTGGAGGCCCTGCTAGCTTGACAGTGCTCACACCTGACCAGCTGAAGTCTACAGGC
ATCCCCAGCTGCGATCACTAAACCTGGTTCCTGAGGAGGAGGCTGAGAGTGAAGAGAATGACGATTACT
AC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC203007 protein sequence
 Red=Cloning site Green=Tags(s)

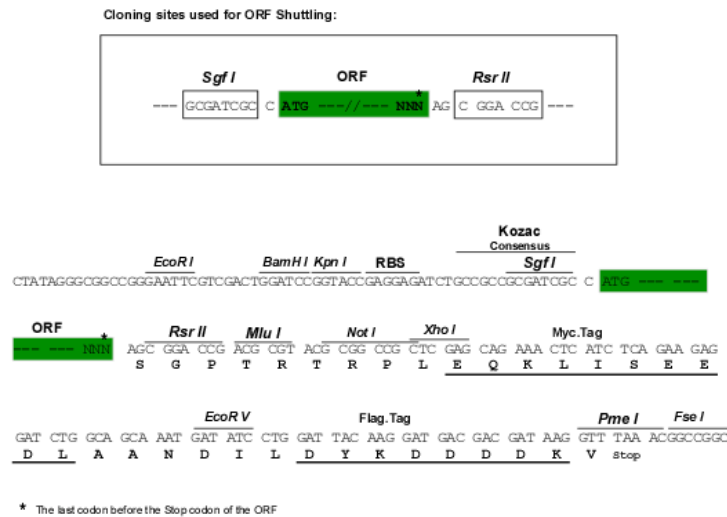
MLPPRPAAALALPVLLLLLVLTTPPTGARPSGPDYLRGWMRLLAEGEGCAPCRPEECAAPRGCLAG
 RVRDACGCCWECANLEGQLCDLPSAHFYGHCGEQLECRDGTGGDL SRGEVPEPLCACRSQSPLCGSDGH
 TYSQICRLQEAAARPANLTV AHPGPCESGPQIVSHPYDTWNVGTQDVF GCEVFAYPMASIEWRKDGL
 DIQLPGDDPHISVQFRGGPQRFVETGWLQIQAVRPSDEGTYRCLGRNALGQVEAPASLTVLTPDQLNSTG
 IPQLRSLNLVPEEEAESEENDYY

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6801_h03.zip

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_030929.5](#)

RefSeq Size: 2514 bp

RefSeq ORF: 915 bp

Locus ID: 81621

UniProt ID: [Q96I82](#)

Cytogenetics: 10q24.31

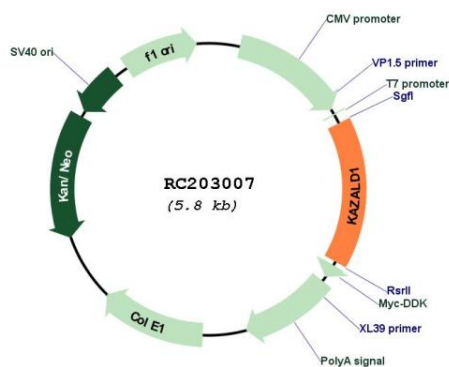
Domains: kazal, ig, IGc2, IG

Protein Families: Secreted Protein

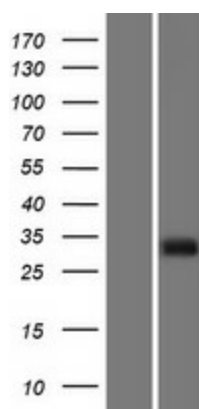
MW: 32.9 kDa

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 RC203007



Western blot validation of overexpression lysate (Cat# [LY410645]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203007 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).