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Product datasheet for SC109213

KAZALD1 (NM_030929) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	KAZALD1 (NM_030929) Human Untagged Clone
Tag:	Tag Free
Symbol:	KAZALD1
Synonyms:	BONO1; FKSG28; FKSG40; IGFBP-rP10
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_030929, the custom clone sequence may differ by one or more nucleotides

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

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_030929 unedited
GGCGTTCAGAATTGTAAACGACTTATATAGGCGGCCGCGCTGCTGCGAAGGTCTAGTTCC
GGACACTAGGGTGCCCGAACGCGCTGATGCCCCGAGTGCTCGCAGGGCTTCCCGCTAACC
ATGCTGCCGCCGCCGCGGCCCGCAGCTGCCTTGGCGCTGCCTGTGCTCCTGCTACTGCTG
GTGGTGCTGACGCCGCCCCCGACCGGCGCAAGGCCATCCCCAGGCCCAGATTACCTGCGG
CGCGGCTGGATGCGGCTGCTAGCGGAGGGCGAGGGCTGCGCTCCCTGCCGGCCAGAAGAG
TGCGCCGCGCCGCGGGGCTGCCTGGCGGGCAGGGTGCGCGACGCGTGCGGCTGCTGCTGG
GAATGCGCCAACCTCGAGGGCCAGCTCTGCGACCTGGACCCCAGTGCTCACTTCTACGGG
CACTGCGGCGAGCAGCTTGAGTGCCGGCTGGACACAGGCGGCGACCTGAGCCGCGGAGAG
GTGCCGGAACCTCTGTGTGCCTGTCGTTCGCAGAGTCCGCTCTGCGGGTCCGACGGTCAC
ACCTACTCCCAGATCTGCCGCCTGCAGGAGGCGGCCCGCGCTCGGCCCGATGCCAACCTC
ACTGTGGCACACCCGGNGCCCTGCGAATCGGGGCCCCAGATCGTGTCACATCCATATGAC
ACTTGGAATGTGACAGGGCANGATGTGATCTTTGGCTGTGAAGTGTTTGCCTACCCCATG
GCCTCCATCGAGTGGAGGAAAGATGGCTTGGACATCCAGCTGCCAGGGGATGACCCCCAC
ATCTCTGTGCAGTTTAGGGGTGGACCCCANNAGTTTGAGGTGACTGGCTGGCTGCAAATN
CCAGCTGTGCGTCCCAGTGATGAAGGCACTTACCGCTGNCTTTGCCCGCATGCCCTGNGT
CAAGTGGAGCCCCTGCTAGCTGACAGTGCTCCN

Restriction Sites: NotI-NotI

ACCN: NM_030929

Insert Size: 1150 bp

OTI Disclaimer: 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).

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_030929.3, NP_112191.2

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]
Transcript Variant: This variant (1) encodes the longer isoform (a).