

Product datasheet for RC224881

Aspartate beta hydroxylase (ASPH) (NM_032467) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Aspartate beta hydroxylase (ASPH) (NM_032467) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Aspartate beta hydroxylase
Synonyms: AAH; BAH; CASQ2BP1; FDLAB; HAAH; JCTN; junctin
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC224881 representing NM_032467
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGCTGAAGATAAAGAGACAAAGCATGGAGGACACAAGAATGGGAGGAAAGGCGGACTCTCAGGAAGCT
 CATTCTTCACGTGGTTTATGGTGATTGCATTGCTGGCGTCTGGACATCTGTAGCTGTGTTTTGTTTGA
 TCTTGTGACTATGAGGAAGTTCTAGGAAAAGTCTATGATGCTGATGGTATGGAGATTTGAT
 GTGGATGATGCCAAAGTTTTATTAGAAGGACCCAGTGGGTAGCCAAGAGAAAACTAAGGCTAAAGTTA
 AAGAACTCACTAAAGAAGAGCTCAAGAAGGAGAAAGAGAAACCTGAGTCAAGGAAGGAAAGTAAGAATGA
 AGAGAGAAAAAGGGGAAGAAAGAGGATGTCCGAAAGGATAAGAAAATTGCTGATGCAGACCTATCCAGG
 AAGGAGTCTCCTAAGGTAAAAAGGACAGAGAAAAAGAGAAAGTGGACCTAGAAAAAGTCTAAAACCA
 AGGAAAAAGGAAAAATCAACAAATATGAAGGATGTTTCTAGTAAAATGGCATCCCAGACAAAGATGA
 CAGAAAGGAAAGTAGAAGTTCTACCAGATATGCACACTTAACAAAGGAAATACCCAGAAAAAGAACGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224881 representing NM_032467
 Red=Cloning site Green=Tags(s)

MAEDKETKHGGHKNRKGGLSGTSFFTFWFMVIALLVVWTSVAVVWFDLVDYEEVLGKLGIIYDADGDGDFD
 VDDAKVLLLEGPSGVAKRRTKAKVKELTKEELKKEKEKPEsrkeskNEERKKGKEDVrKDKKIADADLSR
 KESpKGGKdREKEKVDLEKSAKTKENRKKSTNMKDVSSKMASRDkDRKESRSSTRYAHLTKGNTQKRNG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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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_032467.4](#)

RefSeq Size: 3242 bp

RefSeq ORF: 633 bp

Locus ID: 444

UniProt ID: [Q12797](#)

Cytogenetics: 8q12.3

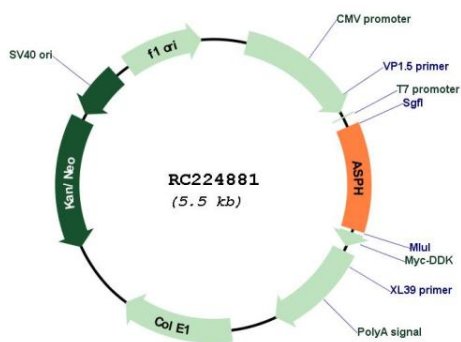
Domains: Asp-B-Hydro_N

Protein Families: Druggable Genome, Transmembrane

MW: 23.8 kDa

Gene Summary: This gene is thought to play an important role in calcium homeostasis. The gene is expressed from two promoters and undergoes extensive alternative splicing. The encoded set of proteins share varying amounts of overlap near their N-termini but have substantial variations in their C-terminal domains resulting in distinct functional properties. The longest isoforms (a and f) include a C-terminal Aspartyl/Asparaginyl beta-hydroxylase domain that hydroxylates aspartic acid or asparagine residues in the epidermal growth factor (EGF)-like domains of some proteins, including protein C, coagulation factors VII, IX, and X, and the complement factors C1R and C1S. Other isoforms differ primarily in the C-terminal sequence and lack the hydroxylase domain, and some have been localized to the endoplasmic and sarcoplasmic reticulum. Some of these isoforms are found in complexes with calsequestrin, triadin, and the ryanodine receptor, and have been shown to regulate calcium release from the sarcoplasmic reticulum. Some isoforms have been implicated in metastasis. [provided by RefSeq, Sep 2009]

Product images:



Circular map for RC224881