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Product datasheet for RN215418

Asah1 (NM_053407) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Asah1 (NM_053407) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Asah1
Synonyms:	Asah
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215418 representing NM_053407 Red=Cloning site Blue=ORF Orange=Stop codon TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCCGCGATCGCC ATGCTGGGCCGTAGTCTCCTCACCTGGGTCCTGGCCGCGGCTGTCACCTGCGCCCAGGCACAGCAAGTGC CACCGTGGACAGAAGATTGCAGAAAATCAACTTATCCTCCTTCTGGACCAACCTATAGAGGACCAGTTCC GTGGTACACCATAAATCTTGATTTACCACCCTACAAGAGATGGCATGAATTATTGGCTCACAAGGCACCT GTGTTGAGAACTTTAGTGAATTCCATCTCGAATTTAGTGAATGCATTTGTGCCAAGTGGAAAAATAATGC AGATGGTGGATGAAAAGTTGCCTGGTCTGATTGGCAGCATTCCTGGCCCTTTTGGAGAGGAAATGAGGGG GATTGCAGATGTTACTGGGATTCCTCTAGGAGAGATTATTTCATTCAACATTTTCTATGAACTGTTCACC ATGTGTACATCGATCATAACTGAAGATGGAAAAGGTCATTTACTACATGGAAGAAACATGGATTTTGGAA TATTTCTTGGGTGGAACATTAACAACAACACTTGGGTGGTGACAGAAGAATTAAAGCCTTTAACAGTGAA TTTGGACTTCCAGAGGAACAATAAGACTGTGTTCAAGGCTACAAGTTTCGCTGGATACGTGGGCATGTTG ACAGGATTCAAACCAGGACTGTTAAGTCTTACACTGAATGAACGTTTCAGTTTAAATGGTGGTTATCTGG GTATCCTAGAATGGATGTTTGGAAAGAAAAATGCCCAATGGGTAGGGTTTATCACTAGATCAGTTCTGGA AAATAGCACAAGTTATGAAGAAGCCAAGAATATATTGACCAAGACCAAGATAACGGCCCCAGCATATTTT ATCCTGGGAGGCAACCAGTCTGGAGAAGGTTGTGTGATTACACGAGAAAGAAAAGAGTCTTTAGACGTCT ATGAACTTGATCCTAAGCATGGCAGATGGTACGTGGTACAAACCAATTATGACCGGTGGAAAAACACCTT GTTTCTTGATGACCGCAGAACACCTGCGAAGAAGTGTCTAAATCACACGACACAGAAGAATCTGTCATTT GCTACCATCTATGATGTTCTATCAACAAAACCTGTCCTCAACAAGCTGACTGTATTCACAACCTTGATAG ATGTCACCAAAGATCAATTTGAAAGCCACCTTCGAGATTGCCCAGACCCTTGTATAGGCTGGTGA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:	SgfI-MluI
ACCN:	NM_053407
Insert Size:	1185 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_053407.3, NP_445859.2
RefSeq Size:	2436 bp
RefSeq ORF:	1185 bp
Locus ID:	84431
UniProt ID:	Q6P7S1
Cytogenetics:	16q12.1
Gene Summary:	Lysosomal ceramidase that hydrolyzes sphingolipid ceramides into sphingosine and free fatty acids at acidic pH (By similarity). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (By similarity). Has a higher catalytic efficiency towards C12-ceramides versus other ceramides (By similarity). Also catalyzes the reverse reaction allowing the synthesis of ceramides from fatty acids and sphingosine (By similarity). For the reverse synthetic reaction, the natural sphingosine D-erythro isomer is more efficiently utilized as a substrate compared to D-erythro-dihydrosphingosine and D-erythro-phytosphingosine, while the fatty acids with chain lengths of 12 or 14 carbons are the most efficiently used (By similarity). Has also an N-acylethanolamine hydrolase activity (By similarity). By regulating the levels of ceramides, sphingosine and sphingosine-1-phosphate in the epidermis, mediates the calcium-induced differentiation of epidermal keratinocytes (By similarity). Also indirectly regulates tumor necrosis factor/TNF-induced apoptosis (By similarity). By regulating the intracellular balance between ceramides and sphingosine, in adrenocortical cells, probably also acts as a regulator of steroidogenesis (By similarity).[UniProtKB/Swiss-Prot Function]

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