

Product datasheet for **RC206273**

HAAO (NM_012205) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HAAO (NM_012205) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HAAO
Synonyms:	3-HAO; h3HAO; HAO; VCRL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC206273 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCGCCGCTGGGAGTGAGGGCCTGGGTGAAGGAGAACCGGGCTCCTTCCAGCCCCGGTCTGCA
ACAAGCTCATGCACCAGGAGCAGCTCAAAGTCATGTTTCATCGGAGGCCCAACACCAGGAAGGACTATCA
CATCGAAGAGGGTGAAGAGGTATTTACCAGCTGGAGGGAGACATGGTTCTCCGAGTCTGGAGCAAGGG
AAACACCGGGATGTGGTCATTCCGCAGGGAGAGATATTCCTCCTGCCTGCCAGGGTGCCCACTCACCAC
AGAGGTTTGCCAACACCGTGGGGCTGGTGGTTGAGCGAAGCGGCTGGAGACCGAGCTAGATGGGCTCAG
GTACTATGTGGGCGACACCATGGACGTTCTGTTGAGAAGTGGTTCTACTGCAAGGACCTCGGCACGCAG
TTGGCCCCCATCATCCAGGAGTTCCTCAGCTCTGAGCAGTACAGAACAGGAAAGCCCATCCCTGACCAGC
TGCTCAAGGAGCCACCATTCCTCTAAGCACACGATCCATCATGGAGCCCATGTCCCTGGATGCCTGGCT
GGACAGCCACCACAGGGAGCTGCAGGCAGGCACACCACTCAGCCTGTTTGGGGACACCTATGAGACCCAG
GTGATCGCCTATGGGCAAGGCAGCAGCGAAGGCCTGAGACAGAATGTGGACGTGTGGCTGTGGCAGCTGG
AGGGCTCCTCGGTGGTGACAATGGGGGACGGCGCCTGAGCCTGGCCCTGATGACAGCCTCCTGGTGCT
AGCTGGGACCTCGTATGCCTGGGAGCGAACACAAGGCTCTGTGGCCCTGTCTGTGACCCAGGACCCCTGCC
TGCAAGAAGCCCTGGGG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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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_012205.3](#)

RefSeq Size: 1301 bp

RefSeq ORF: 861 bp

Locus ID: 23498

UniProt ID: [P46952](#)

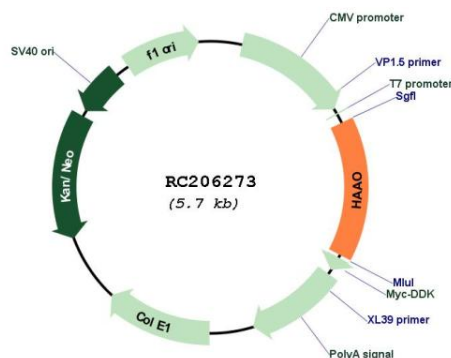
Cytogenetics: 2p21

Protein Pathways: Metabolic pathways, Tryptophan metabolism

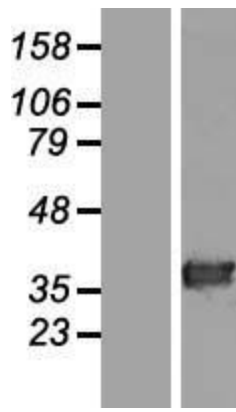
MW: 32.6 kDa

Gene Summary: 3-Hydroxyanthranilate 3,4-dioxygenase is a monomeric cytosolic protein belonging to the family of intramolecular dioxygenases containing nonheme ferrous iron. It is widely distributed in peripheral organs, such as liver and kidney, and is also present in low amounts in the central nervous system. HAAO catalyzes the synthesis of quinolinic acid (QUIN) from 3-hydroxyanthranilic acid. QUIN is an excitotoxin whose toxicity is mediated by its ability to activate glutamate N-methyl-D-aspartate receptors. Increased cerebral levels of QUIN may participate in the pathogenesis of neurologic and inflammatory disorders. HAAO has been suggested to play a role in disorders associated with altered tissue levels of QUIN. [provided by RefSeq, Jul 2008]

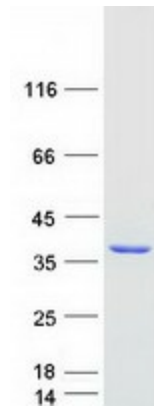
Product images:



Circular map for RC206273



Western blot validation of overexpression lysate (Cat# [LY415914]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206273 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified HAAO protein (Cat# [TP306273]). The protein was produced from HEK293T cells transfected with HAAO cDNA clone (Cat# RC206273) using MegaTran 2.0 (Cat# [TT210002]).