

## Product datasheet for RC207622

### D aspartate oxidase (DDO) (NM\_003649) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	D aspartate oxidase (DDO) (NM_003649) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	D aspartate oxidase
Synonyms:	DASOX; DDO-1; DDO-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207622 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGACCAGCCAGGCACTGGGAAACAAGGTTTGGTGCCAGAGATTTGGTGGCTTCCAAGACTGCTTTT  
TCAGAGACAGGCTCATGGACACAGCACGGATTGCAGTTGTGGGGCAGGTGTGGTGGGGCTCTCCACGGC  
TGTGTGCATCTCCAACTGGTCCCGATGCTCCGTTACCATCATTTAGACAAGTTTACTCCAGATACC  
ACCAGTGATGTGGCAGCCGGAATGCTTATTCCTCACACTTATCCAGATACACCCATTACACGCAGAAGC  
AGTGGTTCAGAGAAACCTTTAATCACCTCTTTGCAATTGCAATTCTGCAGAAGCTGGAGATGCTGGTGT  
TCATTTGGTATCAGTTGGCAGATATTTAGAGCACTCCGACTGAAGAAGTGCCATTCTGGGCTGACGTG  
GTTCTGGGATTTGAAAAGATGACTGAGGCTGAGCTGAAGAAATCCCCAGTATGTGTTGGTCAGGCTT  
TTACAACCTGAAATGTGAATGCCTGCCTACCTCCCCTGGTGGAGAAAAGGATAAAGGGAAAGTGGAGG  
CTGGCACTCACTCGGCAATAGAAGACCTGTGGGAACCTCATCCGTCCTTTGACATCGTGGTCAACTGT  
TCAGGCCTTGGAAGCAGACAGCTGCAGGAGACTCAAAGATTTCCCTGTAAGGGGCAAGTCTCCAAG  
TTCAGGCTCCCTGGTGGAGCATTTTATCCGAGATGGCAGTGGGCTGACATATTTATCCTGGTACATC  
CCATGTAACCTAGGTGGAAGTGGCAAAAAGGGGACTGGAATCTGTCCCGGATGCAGAAAATAGCAGA  
GAGATTTCCCGATGCTGTGCTCTGGAGCCCTCCCTCCAGGAGCCTGCAACATCAGGGAGAAGGTGG  
GCTTGAGGCCCTACAGGCCAGGCGTGCGACTGCAGACAGAGCTCCTTGCGCGAGATGGACAGAGGCTGCC  
TGTAGTCCACCACTATGGCCATGGGAGTGGGGCATCTCAGTGCAGTGGGCACTGCTCTGGAGGCCGCC  
AGGCTGTTGAGCGAGTGTGTCCATGCCCTCAGGACCCCAATCCCAAGTCAAACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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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.

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

**RefSeq:** [NM\\_003649.3](#)

**RefSeq Size:** 1733 bp

**RefSeq ORF:** 1110 bp

**Locus ID:** 8528

**UniProt ID:** [Q99489](#)

**Cytogenetics:** 6q21

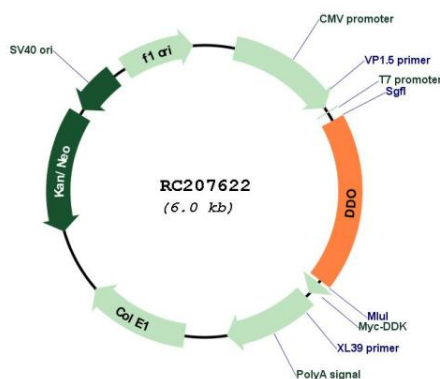
**Domains:** DAO

**Protein Pathways:** Alanine, aspartate and glutamate metabolism

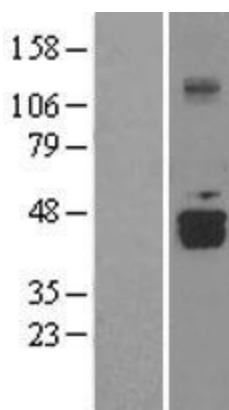
**MW:** 41 kDa

**Gene Summary:** The protein encoded by this gene is a peroxisomal flavoprotein that catalyzes the oxidative deamination of D-aspartate and N-methyl D-aspartate. Flavin adenine dinucleotide or 6-hydroxyflavin adenine dinucleotide can serve as the cofactor in this reaction. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2019]

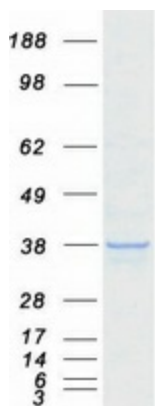
### Product images:



Circular map for RC207622



Western blot validation of overexpression lysate (Cat# [LY401207]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207622 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DDO protein (Cat# [TP307622]). The protein was produced from HEK293T cells transfected with DDO cDNA clone (Cat# RC207622) using MegaTran 2.0 (Cat# [TT210002]).