# *r*VAP-1 VersaClone cDNA

**Catalog Number: RDC2346**

**Specifications:**

| | |
|---|---|
| Gene: | *r*Aoc3 |
| Accession: | NP_113770 |
| Insert size: | 2305bp |
| Concentration: | 10µg at 0.2µg/µL |

**Description**

This shuttle vector contains the complete ORF for the gene of interest, along with a Kozak consensus sequence for optimal translation initiation. It is inserted NotI to AscI. The gene insert is flanked with convenient multiple cloning sites which can be used to easily cut and transfer the gene cassette into your desired expression vector.

**Preparation and Storage**

| | |
|---|---|
| Formulation | cDNA is provided in 10 mM Tris-Cl, pH 8.5 |
| Shipping | Ships at ambient temperature |
| Stability | 1 year from date of receipt when stored at -20°C to -80°C |
| Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. |

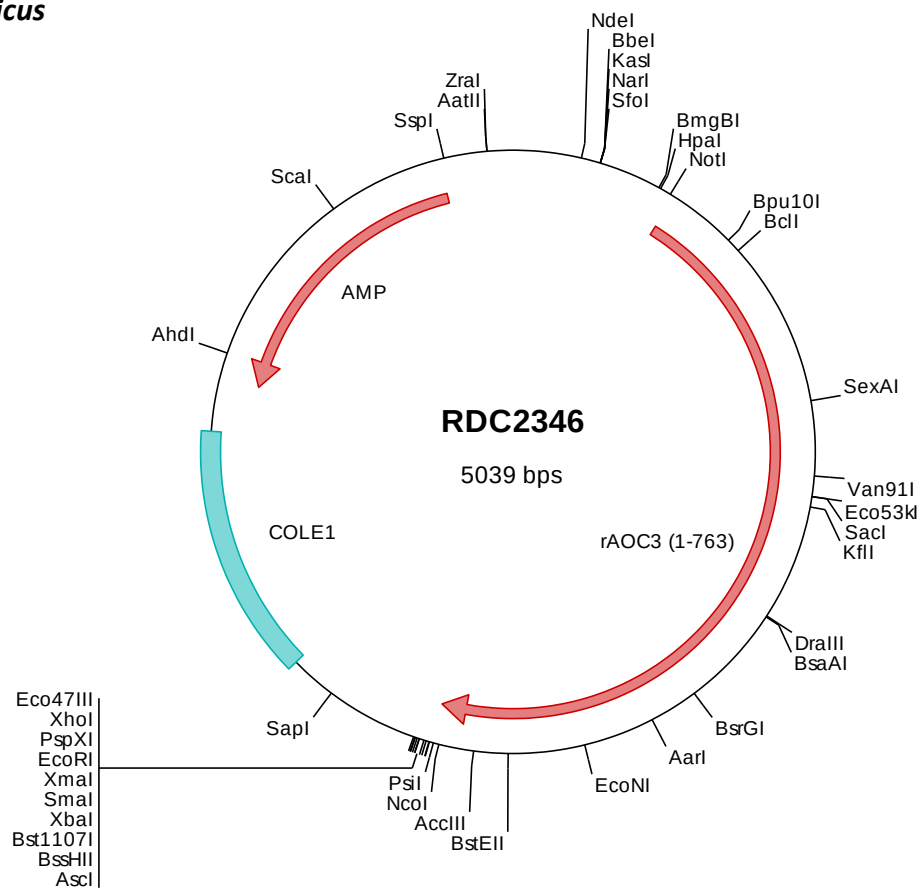
## *r*VAP-1 cDNA Plasmid

**Aoc3 amine oxidase, copper containing 3 [ *Rattus norvegicus* (Norway rat) ]**

**Also known as:** SSAO

**Summary:**

VAP1 is a member of the semicarbazide-sensitive amine oxidase family. It is a copper amine oxidase that catalyzes the oxidative conversion of amines to aldehydes in the presence of copper and quinone cofactor. It is localized to the cell surface, has adhesive properties as well as monoamine oxidase activity, and may be involved in leukocyte trafficking. Alterations in levels of VAP1 may be associated with many diseases, including diabetes mellitus.

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NOT FOR USE IN HUMANS

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## > RDC2346 Plasmid DNA Sequence

```
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 101  tcagggcgcg tcagcgggtg ttggcgggtg tcggggctgg cttaactatg cggcatcaga gcagattgta ctgagagtgc accatatgcg gtgtgaaata
 201  ccgcacagat gcgtaaggag aaaataccgc atcaggcgcc attcgccatt caggctgcgc aactgttggg aagggcgatc ggtgcgggcc tcttcgctat
 301  tacgccagct ggcgaaaggg ggatgtgctg caaggcgatt aagttgggta acgccagggt tttcccagtc acgacgttgt aaaacgacgg ccagtgaatt
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 501  cttcgctttg gtttgcgtct tgctagctgg caggagcgga gatgggggca gactgagcca acctcttcat tgcccttccg ttcttcctag cgtccagccc
 601  cagacacacc ctggccagag ccagccgttt gcagacctga gccctgagga gctgacagct gtgatgagct ttctgatcaa gcacctgggg ccagggctgg
 701  tggatgcagc ccaggctcga ccctcggaca actgtgtctt ctcagtagag ttgcagctgc ctgccaaggc tgcagccctg gcccacctgg acagaggggg
 801  gccccaccc gtgcgggagg cactggccat catcttcttt ggtggacaac ccaagcctaa tgtgagcgag ttggtggtgg ggcccctgcc tcaccctca
 901  tacatgcggg atgtgactgt ggagcgtcat ggcggccccc tgccctatta ccggcgtcct gtgctgacca gagagtatca ggatatccag gagatgatct
1001  tccacagaga gctgccccaa gcgtctggtc tcctccatca ctgttgcttc tacaaacgcc aaggacacaa cctgctaaaa atgactacag ccccccgtgg
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1301  gcctggtgaa tgtggttttg gtcccagaca atggcacagg tgggtcctgg tctctgaagt cttcagtgcc accaggccga gctcctcctc tgcagttcca
1401  tcctgaggga ccccgtttca gcgtccaggg gagtcaagtg agatcctcct tgtgggcttt ttcttttggt cttggagctt tcagtggccc aaggatcttt
1501  gatatccgct ttcaagggga gagggtggcc tatgaaatca gtgtccagga ggccatagcc ctctatggtg gtaattcccc ggcatcaatg tcgacctgct
1601  atatggacgg aagctttggc attggcaaat actctacccc gctgacccga ggggtagact gtccatacct tgccacctat gtggactggc acttccttct
1701  ggagtctcag acccccaaga cactacgtga tgcgttttgc gtgtttgaac agaaccaggg cctcccgctc cggcgacacc actcagattt ctactcccac
1801  tattttgggg gcgttgtgga gacagtgctt gtggtcagat ccgtggctac cttgctcaat tatgactatg tgtgggacat ggttttccac tccaatgggg
1901  ccatagaagt caaattccac gccacgggct atatcacctc ggctttcttc ttcggtgctg gcgagaagtt tgggaaccga gttgccgagc acacactggg
2001  cactgtacac acccacaacg ctcacttcaa agtggacttg gatgtggcag ggttgaagaa ctgggcctgg gcagaggatt tggcttttgt ccctatgaat
2101  gtaccttggc aaccggagtt ccagatgcag aggctgcagg tgactcggaa gctgctggag acagaagagg aggctgcctt cccactggga aatgccaccc
2201  cacgctacct gtacctggcc agtaaccaca gcaacaagtg gggtcacagg cgaggctacc gcatccagat actcagcttt gctgggaagc cactgcccca
2301  ggaaagcccc atagagaaag ccttcacctg gggcaggtat cacttggctg tgacccagag gaaggaggag gagcccagca gttctagcat ctacaaccag
2401  aatgacccgt ggacccccac tgtggacttc actgacttta tcagcaatga gaccattgct ggcgaggact tggtagcctg ggtgacagct ggcttttgc
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2701  gacctccctg ccttctccca tgggggcttt acttataaat aaaggcgcgc cagtatactc tagagtcgac acccggggaa ttcctcgagc gctcgtctct
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2901  ggggtgccta atgagtgagc taactcacat taattgcgtt gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg
3001  ccaacgcgcg gggagaggcg gtttgcgtat tgggcgctct tccgcttcct cgctcactga ctcgctgcgc tcggtcgttc ggctgcggcg agcggtatca
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3201  aggccgcgtt gctggcgttt ttccataggc tccgcccccc tgacgagcat cacaaaaatc gacgctcaag tcagaggtgg cgaaacccga caggactata
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4601  gataataccg cgccacatag cagaacttta aaagtgctca tcattggaaa acgttcttcg gggcgaaaac tctcaaggat cttaccgctg ttgagatcca
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## > RDC2346 Translated Insert Sequence

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 101  lqlpakaaal ahldrggppp vrealaiiff ggqpkpnvse lvvgplphps ymrdvtverh ggplpyyrrp vltreyqdiq emifhrelpq asgllhhccf
 201  ykrqghnllk mttaprglqs gdratwfgiy ynlsgagfyp hpiglellvd hkaldpalwt iqkvfyqgry yesltqledm feaglvnvvl vpdngtggsw
 301  slkssvppgr applqfhpeg prfsvqgsqv rsslwafsfg lgafsgprif dirfqgerva yeisvqeaia lyggnspasm stcymdgsfg igkystpltr
 401  gvdcpylaty vdwhfllesq tpktlrdafc vfeqnqglpl rrhhsdfysh yfggvvetvl vvrsvatlln ydyvwdmvfh sngaievkfh atgyitsaff
 501  fgagekfgnr vaehtlgtvh thnahfkvdl dvaglknwaw aedlafvpmn vpwqpefqmq rlqvtrklle teeeaafplg natprylyla snhsnkwghr
 601  rgyriqilsf agkplpqesp iekaftwgry hlavtqrkee epssssiynq ndpwtptvdf tdfisnetia gedlvawvta gflhiphaed ipntvtvgng
 701  vgfflrpynf fdedpsfysp dsiyfrkdqd vtdcevnsla clsqtancvp dlpafshggf tyk
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