

Product datasheet for RC213538

AKR1C2 (NM_001354) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

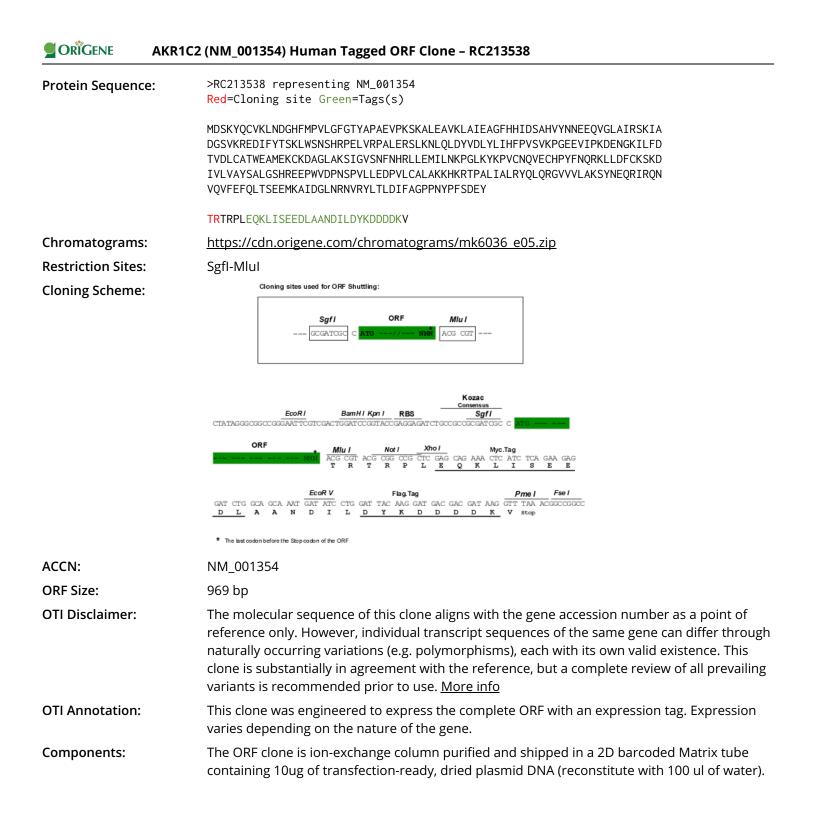
| Expression Plasmids |
|---|
| AKR1C2 (NM_001354) Human Tagged ORF Clone |
| Myc-DDK |
| AKR1C2 |
| AKR1C-pseudo; BABP; DD; DD-2; DD/BABP; DD2; DDH2; HAKRD; HBAB; MCDR2; SRXY8; TDD |
| Neomycin |
| pCMV6-Entry (PS100001) |
| Kanamycin (25 ug/mL) |
| <pre>>RC213538 representing NM_001354 Red=Cloning site Blue=ORF Green=Tags(s)</pre> |
| TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C |
| ATGGATTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGTCCTGGGATTTGGCACCT ATGCGCCTGCAGAGGTTCCTAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAGAAGCCGGGTTCCA CCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCAAGATTGCA GATGGCAGTGTGAAGAGAAGA |
| |

GGGTGTCCAACTTCAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGT CTGCAACCAGGTGGAATGTCATCCTTACTTCAACCAGAGAAAAACTGCTGGATTTCTGCAAGTCAAAAGAC ATTGTTCTGGTTGCCTATAGTGCTCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAACTCCCCGG TGCTCTTGGAAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCCAGCCCTGATTGCCCT GCGCTACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGCATCAGAACAGAAC GTGCAGGTGTTTGAATTCCAGTTGACTTCAGAGGAGATGAAAGCCATAGATGGCCTAAACAGAAATGTGC GATATTTGACCCTTGATATTTTTGCTGGCCCCCCCTAATTATCCATTTTCTGATGAATAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA**



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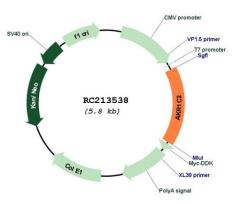
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GRIGENE AKR1C2 (NM_001354) Human Tagged ORF Clone – RC213538

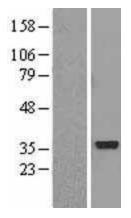
| Reconstitution Method: | 1. Centrifuge at 5,000xg for 5min. |
|------------------------|--|
| | 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. |
| | Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less 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: | <u>NM 001354.5</u> |
| RefSeq Size: | 1663 bp |
| RefSeq ORF: | 972 bp |
| Locus ID: | 1646 |
| UniProt ID: | <u>P52895</u> |
| Cytogenetics: | 10p15.1 |
| Domains: | aldo_ket_red |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Metabolism of xenobiotics by cytochrome P450 |
| MW: | 36.6 kDa |
| Gene Summary: | This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011] |



Product images:

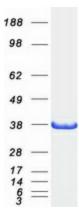


Circular map for RC213538



Western blot validation of overexpression lysate (Cat# [LY400539]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC213538 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified AKR1C2 protein (Cat# [TP313538]). The protein was produced from HEK293T cells transfected with AKR1C2 cDNA clone (Cat# RC213538) using MegaTran 2.0 (Cat# [TT210002]).

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