

Product datasheet for RN212271

Akr1a1 (NM_031000) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Akr1a1 (NM_031000) Rat Untagged Clone
 Tag: Tag Free
 Symbol: Akr1a1
 Synonyms: Akr1a4
 Vector: pCMV6-Entry (PS100001)
 E. coli Selection: Kanamycin (25 ug/mL)
 Cell Selection: Neomycin
 Fully Sequenced ORF: >RN212271 representing NM_031000
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACGGCCTCCAGTGTCTCTGCACACTGGACAGAAGATGCCTCTGATTGGTCTGGGGACATGGAAGA
 GTGAGCCTGGTCAGGTGAAAGCAGCTATTAATATGCCCTTAGCGTAGGCTACCGCCACATTGACTGTGC
 TTCTGTATATGGCAATGAAACTGAGATTGGAGAGGCCCTGAAGGAGAGTGTGGGAGCAGGCAAGGCAGTA
 CCTCGAGAGGAGCTGTTTGTGACCTCCAAGCTGTGGAATACTAAGCACCACCCTGAGGATGTAGAACCTG
 CTGTCCGGAAGACGCTGGCTGATCTGCAGCTGGAGTATTTGGACCTCTATTTGATGCATTGGCCTTATGC
 CTTTCGAGCGGGGAGACAATCCCTTTCCCAAGAATGCCGATGGAAGTGTCAAATATGACTCCACTCACTAT
 AAGGAGACCTGGAAGGCTCTGGAGGCACTGGTGGCAAAGGGGCTGGTGAAGCCTTGGGCTTGCCAACT
 TCAGCAGTCGGCAGATAGATGATGTCCTCAGTGTGGCCTCGGTGCGCCAGCTGTCTTGAGGTGGAATG
 CCATCCATACCTGGCTCAAAATGAGCTCATTGCCACTGTCAAGCAGGAGCTTGAGGTGACAGCTTAC
 AGCCCCTTGGTTTCATCGGATCGTGTCTGGCGCCACCTGATGAGCCAGTCTGCTTGAGGAACCAAGTTG
 TCTTGGCACTAGCTGAAAAACATGGCCGATCTCCAGCTCAGATCTTGTCTCAGATGCGAGGTCAGCGGAA
 AGTAATCTGCATCCCCAAAAGCATCACTCTTCCGCATCCTTCAGAACATTCAGGTATTTGATTTCAACC
 TTTAGTCCAGAGGAGATGAAGCAATTAGATGCTCTGAACAAAAATTGGCGGTATATTGTGCCCATGATTA
 CGGTGGATGGGAAGAGAGTCCCCAGAGATGCTGGACACCCTCTGTATCCCTTTAATGACCCATAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
 ACCN: NM_031000
 Insert Size: 978 bp



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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:	<ol style="list-style-type: none">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_031000.3 , NP_112262.1
RefSeq Size:	1124 bp
RefSeq ORF:	978 bp
Locus ID:	78959
UniProt ID:	P51635
Cytogenetics:	5q35
Gene Summary:	enzyme that catalyzes the NADPH-dependent reduction of 3-deoxyglucosone; important for detoxifying 3-deoxyglucosone when it is formed through the Maillard reaction in vivo [RGD, Feb 2006]