

Product datasheet for **RR213775**

Akr1d1 (NM_138884) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Akr1d1 (NM_138884) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Akr1d1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR213775 representing NM_138884 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACCTCAGCACTGCAAACCACCATACCCCTAAATGATGGTAACAGCATTCCGATCATCGGGCTTG
GAACCTACTCAGACCCCTAGACCCGTACCTGGCAAGACCTTTATAGCAGTGAAGACAGCTATTGACGAGGG
GTACCGGCATATTGATGGGGCCTACGCTACCGAAATGAACATGAAGTCGGTGAGGCCATCAGAGAAAAG
GTGGCAGAAGGGAAGGTAAGAGGGAAGAGATTTCTACTGTGGAAAGTTATGGAGTACAGACCATGATC
CAGAGATGGTCCGCCAGCCCTGAAAGGACCCTGCAGACCCCTAAGCTAGATTACATAGACCTTTATAT
CATTGAGATGCCCATGGCCTTTAAGCCTGGAGAGGAATTTATCCTAAAGATGAGAATGGCCGAGTGATA
TACCACAAATCAAATCTGTGTGCCACGTGGGAGGCACTGGAAGCTTGCAAAGACGCTGGCTTGGTGAAT
CCCTTGGGGTGTCTAATTTTAACCGCAGGCAGCTGGAGGTCATCTTGAACAAGCCAGGACTCAAGTACAA
GCCTGTCACCAACCAGGTGGAGTGCCACCCGATTTACCCAGACAAAACCTTGAAGTTTCTGCCAGC
AGCATGACATCGTTCATTGTGCGCATAACGCCCTTAGGGACCTGTCGAACCCGTTATGGGTGAATGTAT
CTTCTCCACCCTTGTTAAAGGATGAACCTCAACCTCGCTGGGGAAAAAGTACAATAAGACACAAGCTCA
AATTGTGTTGCGTTTCGACATCCAGCGAGGGTTGGTTGTCATCCCTAAAAGTACTACCCCTGAAAGGATC
AAAGAAAACCTTTCAGATCTTTGACTTCTCTCTACCAAAGAAGAAATGAAGGACATTGAAGCCTTGAATA
AAAACGTGCGCTTTGGGAGATGCTCATGTGGAGTGATCATCCTGAATACCCATTTTCATGACGAATAC

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ACAAGGATGACGACGATAAGGTTTAA



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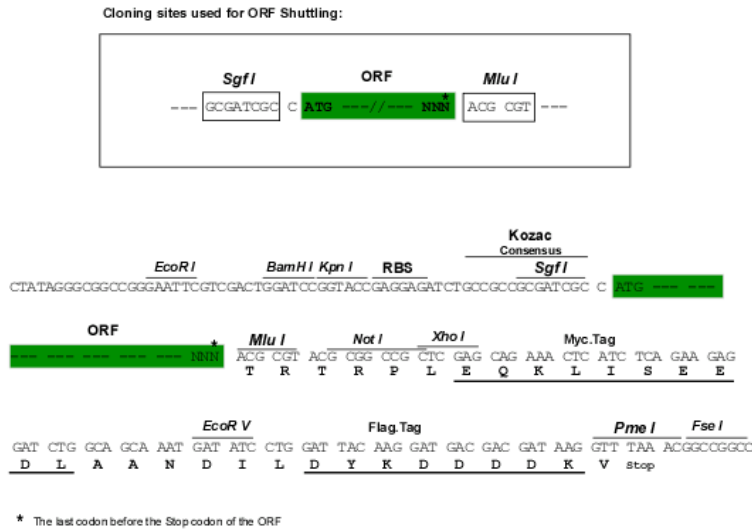
Protein Sequence: >RR213775 representing NM_138884
 Red=Cloning site Green=Tags(s)

MNLSTANHHIPLNDGNSIPIIIGLGTYS DPRPVP GKTFIAVKTAIDEGYRHIDGAYVYRNEHEVGEAIREK
 VAEGKVKREEIFYCGKLWSTDHDP EMVRPALERTLQTLKLDYIDL YIEMPMFAKPGEEFYPKDENG RVI
 YHKS NL CATWEALEACKDAGL VKSLGVS NFNRRQL E VILNKPGLKYK PVTN QVECHPYFTQT K LLEVSAS
 SMTSFIVAYSPLGTCRNPLWVNVSSP L LKDELLTSLGKKY NK TQAQIVLRFDIQRGLVVIPKSTTPERI
 KENFQIFDFSLTKEEMKDIEALNKNVRFV EMLMWS DHPEYPFHDEY

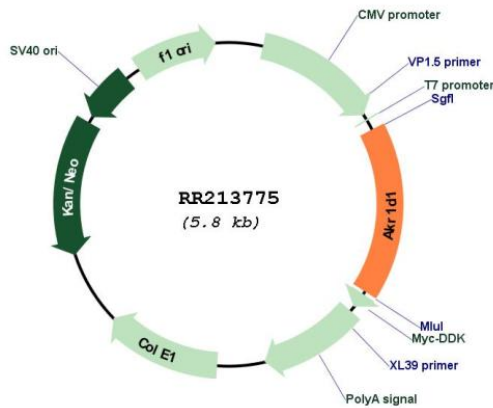
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_138884

ORF Size:	978 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_138884.1 , NP_620239.1
RefSeq Size:	3189 bp
RefSeq ORF:	981 bp
Locus ID:	192242
UniProt ID:	P31210
Cytogenetics:	4q22
MW:	37.4 kDa
Gene Summary:	enzyme that catalyzes the reduction of key intermediates during bile acid biosynthesis [RGD, Feb 2006]