

Product datasheet for SC315736

AKR1B15 (NM_001080538) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKR1B15 (NM_001080538) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKR1B15
Synonyms:	AK1R1B7; AKR1B10L; AKR1R1B7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC315736 representing NM_001080538. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGTCTTACAAATGGAACCCCAAGTGAACCTCACTAACAACCTCCACCAAGGACCCCTGGACCAACCC
 GTTGGCCCTTTGACTGGCCTAAAGAGTTCCTTCTGAAGGACACTACAAGTGCAGGGCCCTTCTTCGC
 CCCTATCCAGCATCTCTCTCGGCAAAGTGAAAGAAGCGGTGAAGGTGGCCATTGATGCAGAATATCGC
 CACATTGACTGTGCCTATTTCTATGAGAATCAACATGAGGTGGGAGAAGCCATCCAAGAGAAGATCCAA
 GAGAAGGCTGTGATGCGGAGGACCTGTTTCATCGTCAGCAAGGTGTGGCCCACTTTCTTTGAGAGACCC
 CTTGTGAGGAAAGCCTTTGAGAAGACCCCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCTTATT
 CACTGGCCACAGGGATTCAAGACTGGGGATGACTTTTTCCCAAAGATGATAAAGGTAATATGATCAGT
 GGAAAAGGAACGTTCTTGATGCCTGGGAGGCCATGGAGGAGCTGGTGGACGAGGGGCTGGTGAAAGCC
 CTTGGGGTCTCAAATTTCAACCACTTCCAGATCGAGAGGCTCTTGAACAAACCTGGACTGAAATATAAA
 CCAGTGACTAACCAGTTGAGTGTACCCATACCTCACGAGGAGAACTGATCCAGTACTGCCACTCC
 AAGGGCATCACCGTTACGGCCTACAGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAACCTGAGGAC
 CCTTCCCTGTGGAGGATCCCAAGATTAAGGAGATTGCTGCAAGCACAAAAAACACAGCCCAGGTT
 CTGATCCGTTTCCATATCCAGAGGAATGTGACAGTGATCCCCAAGTCTATGACACCAGCACACATTGTT
 GAGAACATTCAGGTCTTTGACTTTAAATTGAGTGATGAGGAGATGGCAACCATACTCAGTTCAACAGA
 AACTGGAGGGCCTTTGACTTCAAGGAATTCTCTCATTTGGAGGACTTTCCCTTCGATGCAGAATAT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001080538


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Insert Size:	1035 bp
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	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:	<u>NM_001080538.2</u>
RefSeq Size:	1625 bp
RefSeq ORF:	1035 bp
Locus ID:	441282
UniProt ID:	<u>C9JRZ8</u>
Cytogenetics:	7q33
MW:	39.5 kDa
Gene Summary:	Isoform 1: Catalyzes the NADPH-dependent reduction of a variety of carbonyl substrates, like aromatic aldehydes, alkenals, ketones and alpha-dicarbonyl compounds (PubMed:26222439, PubMed:21276782). In addition, catalyzes the reduction of androgens and estrogens with high positional selectivity (shows 17-beta-hydroxysteroid dehydrogenase activity) as well as 3-keto-acyl-CoAs (PubMed:25577493). Displays strong enzymatic activity toward all-trans-retinal and 9-cis-retinal (PubMed:26222439). May play a physiological role in retinoid metabolism (PubMed:26222439).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). ##RefSeq-Attributes-START## MANE Ensembl match :: ENST00000457545.7/ ENSP00000389289.1 RefSeq Select criteria :: based on expression, longest protein ##RefSeq-Attributes-END## COMPLETENESS: full length.