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Product datasheet for SC330316

AKR1C3 (NM_001253908) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: AKR1C3 (NM_001253908) Human Untagged Clone

Tag: Tag Free

Symbol: AKR1C3

Synonyms: DD3; DDX; HA1753; HAKRB; HAKRe; hluPGFS; HSD17B5; PGFS

Vector: pCMV6-Entry (PS100001)

Fully Sequenced ORF:

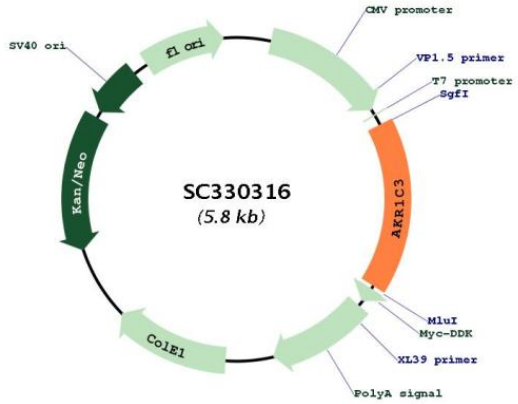
>SC330316 representing NM_001253908.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

ATGGATTCAAAACATCAGTGTTTGAAGCTAAATGATGGTCACTTCATGCCTGTCCTGGGATTTGGCACC
TATGCACCTCCAGAGGTTCCGAGAAGTAAAGCTTTGGAGGTCACAAAATTAGCAATAGAAGCTGGGTTC
CGCCATATAGATTCTGCTCATTTATACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCAAGATT
GCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGTCCACTTTTCATCGACCA
GAGTTGGTCCGACCAGCCTTGGAAAACTCACTGAAGAAAGCTCAATTGGACTATGTTGACCTCTATCTT
ATTCATTCTCCAATGTCTCTAAAGCCAGGTGAGGAACTTTCACCAACAGATGAAAATGGAAAAGTAATA
TTTGACATAGTGGATCTCTGTACCACCTGGGAGGCCATGGAGAAGTGTAAGGATGCAGGATTGGCCAAG
TCCATTGGGGTGTCAAACTTCAACCGCAGGCAGCTGGAGATGATCCTCAACAAGCCAGGACTCAAGTAC
AAGCCTGTCTGCAACCAGGTAGAATGTCATCCGTATTTCAACCGGAGTAAATTGCTAGATTTCTGCAAG
TCGAAAGATATTGTTCTGGTTGCCTATAGTGCTCTGGGATCTCAACGAGACAAACGATGGGTGGACCCG
AACTCCCCGGTGCTCTTGGAGGACCCAGTCCTTTGTGCCTTGGCAAAAAAGCACAAGCGAACCCCAGCC
CTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCCTGGCCAAGAGCTACAATGAGCAGCGC
ATCAGACAGAACGTGCAGGTTTTTGAGTTCCAGTTGACTGCAGAGGACATGAAAGCCATAGATGGCCTA
GACAGAAATCTCCACTATTTTAACAGTGATAGTTTTGCTAGCCACCCTAATTATCCATATTCAGATGAA
TATTAA

Restriction Sites: SgfI-MluI

View online »

Plasmid Map:



ACCN:	NM_001253908
Insert Size:	972 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).
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:	NM_001253908.1

RefSeq Size:	1228 bp
RefSeq ORF:	972 bp
Locus ID:	8644
UniProt ID:	P42330
Cytogenetics:	10p15.1
Protein Families:	Druggable Genome
Protein Pathways:	Arachidonic acid metabolism, Metabolism of xenobiotics by cytochrome P450
MW:	36.9 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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF2 to PGD2. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. 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 different isoforms have been found for this gene. [provided by RefSeq, Dec 2011] Transcript Variant: This variant (2) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (2) is the same length as isoform 1 but differs by 1 aa in the N-terminus.