

Product datasheet for **SC330913**

AKR1CL2 (AKR1E2) (NM_001271021) Human Untagged Clone

Product data:

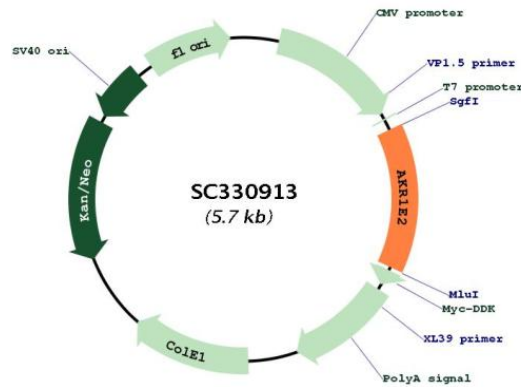
Product Type: Expression Plasmids
Product Name: AKR1CL2 (AKR1E2) (NM_001271021) Human Untagged Clone
Tag: Tag Free
Symbol: AKR1E2
Synonyms: AKR1CL2; AKRDC1; htAKR; hTSP; HTSP1; LoopADR; TAKR
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC330913 representing NM_001271021.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

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ATGGGAGATATCCAGCCGTGGCCTCAGCTCCTGGAAGGCTTCTCCAGGGAAAGTGACCGAGGCAGTG
AAAGAGGCCATTGACGCAGGGTACCGGCACTTCGACTGTGCTTACTTTTACCACAATGAGAGGGAGGTT
GGAGCAGGGATCCGTTGCAAGATCAAGGAAGGCGCTGTAAGACGGGAGGATCTGTTTCATTGCCACTAAG
CTGTGGTGCACCTGCCATAAGAAGTCCTTGGTGGAAACAGCATGCAGAAAGAGTCTCAAGGCCTTGAAG
CTGAACTATTTGGACCTCTACCTCATACACTGGCCCATGGGTTTCAAGCCTCCTCATCCAGAATGGATC
ATGAGCTGCAGTGAACCTTTCCTTCTGCCTCTCACATCCTCGAGTGCAGGACTTGCCTCTGGACGAGAGC
AACATGGTTATTCAGTGCACGACTTCTGGACACGTGGGAGGCCATGGAGGACCTGGTGATCACC
GGGCTGGTGAAGAACATCGGGGTGTCAAACCTCAACCATGAACAGCTTGAGAGGCTTTTGAATAAGCCT
GGGTTGAGGTTCAAGCCACTAACCAACCAGATTTTATCCGATTTCAAATCCAGAGGAATGTGATAGTG
ATCCCCGATCTATCACCCCAAGTCACATTAAGAGAATATCCAGGTGTTTGAATTTGAATTAACACAG
CACGATATGGATAACATCCTCAGCCTAACAGGAATCTCCGACTGGCCATGTTCCCATAACTAAAAAT
CACAAAGACTATCCTTTCCACATAGAATACTGA
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001271021

Insert Size: 792 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_001271021.1](#)

RefSeq Size: 1485 bp

RefSeq ORF: 792 bp

Locus ID: 83592

UniProt ID: [Q96JD6](#)

Cytogenetics: 10p15.1

Protein Families: Druggable Genome

MW: 30.3 kDa

Gene Summary: The protein encoded by this gene is a member of the aldo-keto reductase superfamily. Members in this family are characterized by their structure (evolutionarily highly conserved TIM barrel) and function (NAD(P)H-dependent oxido-reduction of carbonyl groups). Transcripts of this gene have been reported in specimens of human testis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]
Transcript Variant: This variant (2) lacks two alternate in-frame exons in the coding region compared to variant 1. It encodes isoform 2 which is shorter than isoform 1.