

Product datasheet for **SC311005**

AKR1CL2 (AKR1E2) (NM_001040177) Human Untagged Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | AKR1CL2 (AKR1E2) (NM_001040177) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | AKR1E2 |
| Synonyms: | AKR1CL2; AKRDC1; htAKR; hTSP; HTSP1; LoopADR; TAKR |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Fully Sequenced ORF: | >SC311005 representing NM_001040177. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

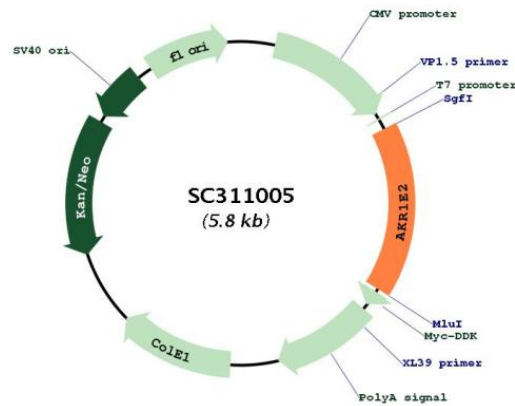
```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGGGAGATATCCAGCCGTGGGCCTCAGCTCCTGGAAGGCTTCTCCAGGGAAAGTGACCGAGGCAGTG
AAAGAGGCCATTGACGCAGGGTACCGGCACTTCGACTGTGCTTACTTTTACCACAATGAGAGGGAGGTT
GGAGCAGGGATCCGTTGCAAGATCAAGGAAGGCCTGTAAGACGGGAGGATCTGTTTCATTGCCACTAAG
CTGTGGTGCACCTGCCATAAGAAGTCCTTGGTGGAAACAGCATGCAGAAAGAGTCTCAAGGCCTTGAAG
CTGAACTATTTGGACCTCTACCTCATACTGGCCATGGGTTTCAAGCCTCCTCATCCAGAATGGATC
ATGAGCTGCAGTGAACCTTCTTCTGCCTCTCACATCCTCGAGTGCAGGACTTGCCTCTGGACGAGAGC
AACATGGTTATCCCACTGACACGGACTTCTGGACACGTGGGAGGCCATGGAGGACCTGGTGATCACC
GGGCTGGTGAAGAACATCGGGGTGTCAAATTC AACCATGAACAGCTTGAGAGGCTTTTGAATAAGCCT
GGGTTGAGGTTCAAGCCACTAACCAACCAGATTGAGTGCCACCCATATCTTACTCAGAAGAATCTGATC
AGTTTTTGCCAAATCCAGAGATGTGTCCGTGACTGCTTACCGTCTCTTGGTGGCTCGTGTGAGGGGTT
GACCTGATAGACAACCCTGTGATCAAGAGGATTGCAAAGGAGCACGGCAAGTCTCCTGCTCAGATTTTG
ATCCGATTTCAAATCCAGAGGAATGTGATAGTATCCCGGATCTATCACCCAAAGTCACATTAAGAG
AATATCCAGGTGTTTGAATTTGAATTAACACAGCACGATATGGATAACATCCTCAGCCTAACAGGAAT
CTCCGACTGGCCATGTTCCCATAACTAAAAATCACAAGACTATCCTTTCCACATAGAATAC TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:



ACCN: NM_001040177

Insert Size: 963 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: [NM_001040177.2](#)

RefSeq Size: 1656 bp

RefSeq ORF: 963 bp

| | |
|--------------------------|---|
| Locus ID: | 83592 |
| UniProt ID: | Q96JD6 |
| Cytogenetics: | 10p15.1 |
| Protein Families: | Druggable Genome |
| MW: | 36.6 kDa |
| Gene Summary: | <p>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]</p> <p>Transcript Variant: This variant (1) encodes isoform 1.</p> |