

## Product datasheet for **RC232323**

### **AKR1CL2 (AKR1E2) (NM\_001271021) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** AKR1CL2 (AKR1E2) (NM\_001271021) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** AKR1E2  
**Synonyms:** AKR1CL2; AKRDC1; htAKR; hTSP; HTSP1; LoopADR; TAKR  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232323 representing NM\_001271021  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGGAGATATCCAGCCGTGGCCTCAGCTCCTGGAAGGCTTCTCCAGGGAAAGTGACCGAGGCAGTGA  
AAGAGGCCATTGACGCAGGGTACCGCACTTCGACTGTGCTTACTTTTACCACAATGAGAGGGAGGTTGG  
AGCAGGGATCCGTTGCAAGATCAAGGAAGGCGCTGTAAGACGGGAGGATCTGTTCATTGCCACTAAGCTG  
TGGTGCACCTGCCATAAGAAGTCCTTGGTGAAACAGCATGCAGAAAGAGTCTCAAGGCCTGAAGCTGA  
ACTATTTGGACCTCTACCTCATACACTGGCCATGGGTTTCAAGCCTCCTCATCCAGAATGGATCATGAG  
CTGCAGTGAACCTTCTCTGCCTCTCACATCCTCGAGTGCAGGACTTGCCTCTGGACGAGAGCAACATG  
GTTATTTCCAGTGACACGGACTTCTGGACACGTGGGAGGCCATGGAGGACCTGGTGATCACCGGCTGG  
TGAAGAACATCGGGGTGTCAACTTCAACCATGAACAGCTTGAGAGGCTTTTGAATAAGCCTGGGTTGAG  
GTTCAAGCCACTAACCAACCAGATTTTGATCCGATTTCAAATCCAGAGGAATGTGATAGTGATCCCCGGA  
TCTATCACCCCAAGTCACATTAAGAGAATATCCAGGTGTTTGATTTGAATTAACACAGCACGATATGG  
ATAACATCCTCAGCCTAAACAGGAATCTCCGACTGGCCATGTTCCCCATAACTAAAAATCACAAAGACTA  
TCCTTTCCACATAGAATAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232323 representing NM\_001271021  
 Red=Cloning site Green=Tags(s)

MGDIPAVGLSSWKASPGKVTEAVKEAIDAGYRHFDCAYFYHNEREVGAGIRCKIKEGAVRREDLFIATKL  
 WCTCHKKSLVETACRKSALKALNYLDLYLIHWPMGFKPPHPPEWIMSCSELSFCLSHPRVQDLPLDESNM  
 VIPSDTDFLDTWEAMEDLVITGLVKNIGVSNFNHEQLERLLNKPGLRFKPLTNQILIRFQIQRNVIPIV  
 SITPSHIKENIQVDFELTQHMDNILSLNRNLRAMFPITKNHKDYPFHIEY

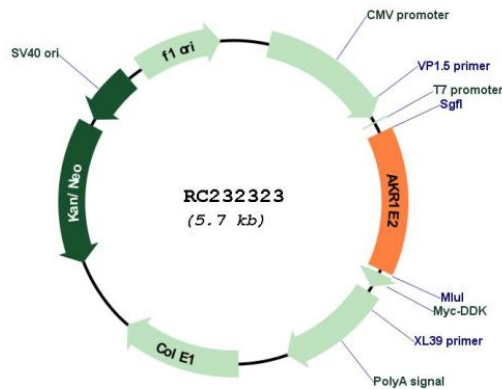
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001271021  
 ORF Size: 789 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001271021.1</a> , <a href="#">NP_001257950.1</a>
<b>RefSeq Size:</b>	1485 bp
<b>RefSeq ORF:</b>	792 bp
<b>Locus ID:</b>	83592
<b>UniProt ID:</b>	<a href="#">Q96JD6</a>
<b>Cytogenetics:</b>	10p15.1
<b>Protein Families:</b>	Druggable Genome
<b>MW:</b>	30.8 kDa
<b>Gene Summary:</b>	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]