

Product datasheet for **RG232323**

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:	TurboGFP
Symbol:	AKR1E2
Synonyms:	AKR1CL2; AKRDC1; htAKR; hTSP; HTSP1; LoopADR; TAKR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG232323 representing NM_001271021 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAGATATCCAGCCGTGGGCCTCAGCTCCTGGAAGGCTTCTCCAGGGAAAGTGACCGAGGCAGTGA
AAGAGGCCATTGACGCAGGGTACCGCACTTCGACTGTGCTTACTTTTACCACAATGAGAGGGAGGTTGG
AGCAGGGATCCGTTGCAAGATCAAGGAAGGCGCTGTAAGACGGGAGGATCTGTTTCATTGCCACTAAGCTG
TGGTGACCTGCCATAAGAAGTCTTGGTGAACAGCATGCAGAAAGAGTCTCAAGGCCTGAAGCTGA
ACTATTTGGACCTCTACCTCATACTGGCCCATGGGTTTCAAGCCTCCTCATCCAGAATGGATCATGAG
CTGCAGTGAACCTTCTTCTGCCTCTCACATCCTCGAGTGCAGGACTTGCCTCTGGACGAGAGCAACATG
GTTATTTCCAGTGACACGGACTTCTGGACACGTGGGAGGCCATGGAGGACCTGGTGATCACCGGCTGG
TGAAGAACATCGGGGTGTCAAACTTCAACCATGAACAGCTTGAGAGGCTTTTGAATAAGCCTGGGTTGAG
GTTCAAGCCACTAACCAACCAGATTTTGTCCGATTTCAAATCCAGAGGAATGTGATAGTGATCCCCGGA
TCTATCACCCCAAGTACATTAAGAGAATATCCAGGTGTTTGAATTAACACAGCAGCATATGG
ATAACATCCTCAGCCTAAACAGGAATCTCCGACTGGCCATGTTCCCATAACTAAAAATCACAAAGACTA
TCCTTTCCACATAGAATAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232323 representing NM_001271021
 Red=Cloning site Green=Tags(s)

MGDIPAVGLSSWKASPGKVTEAVKEAIDAGYRHFDCAYFYHNEREVGAGIRCKIKEGAVRREDLFIATKL
 WCTCHKKSLVETACRKSALKALNYLDLYLIHWPMGFKPPHPPEWIMSCSELSFCLSHPRVQDLPLDESNM
 VIPSDTDFLDTWEAMEDLVITGLVKNIGVSNFNHEQLERLLNKPGLRFKPLTNQILIRFQIQRNIVIPG
 SITPSHIKENIQVDFELTQHMDNILSLNRNRLAMFPITKNHKDYPFHIEY

TRTRPLE - GFP Tag - V

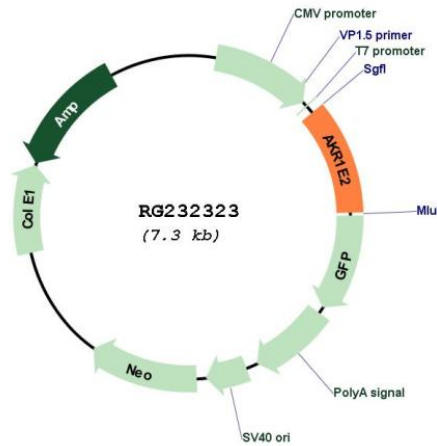
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001271021

ORF Size: 789 bp

OTI Disclaimer:	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. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	<ol style="list-style-type: none">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 , NP_001257950.1
RefSeq Size:	1485 bp
RefSeq ORF:	792 bp
Locus ID:	83592
UniProt ID:	Q96JD6
Cytogenetics:	10p15.1
Protein Families:	Druggable Genome
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]