

Product datasheet for **RG203177**

AKR1B10 (NM_020299) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKR1B10 (NM_020299) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKR1B10
Synonyms:	AKR1B11; AKR1B12; ALDRLn; ARL-1; ARL1; HIS; HSI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203177 representing NM_020299 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCACGTTTGTGGAGCTCAGTACCAAAGCCAAGATGCCATTGTGGGCCTGGGCACTTGAAGTCTC
CTCTTGGCAAAGTAAAAGAAGCAGTGAAGGTGGCCATTGATGCAGGATATCGGCACATTGACTGTGCCTA
TGCTATCAGAATGAACATGAAGTGGGGGAAGCCATCCAAGAGAAGATCCAAGAGAAGGCTGTGAAGCGG
GAGGACCTGTTTCATCGTCAGCAAGTTGTGGCCACTTTCTTTGAGAGACCCTTGTGAGGAAAGCCTTTG
AGAAGACCCTCAAGGACCTGAAGCTGAGCTATCTGGACGTCTATCTTATTCACTGGCCACAGGGATTCAA
GTCTGGGGATGACCTTTTCCCAAAGATGATAAAGGTAATGCCATCGGTGAAAAGCAACGTTCTTGGAT
GCCTGGGAGGCCATGGAGGAGCTGGTGGATGAGGGCTGGTAAAAGCCCTTGGGGTCTCCAATTTAGCC
ACTTCCAGATCGAGAAGCTCTTGAACAAACCTGGACTGAAATATAAACCAGTGACTAACCAGTTGAGTG
TCACCCATACCTCACACAGGAGAACTGATCCAGTACTGCCACTCCAAGGGCATCACCGTTACGGCCTAC
AGCCCCCTGGGCTCTCCGGATAGACCTTGGGCCAAGCCAGAAGACCCTTCCCTGCTGGAGGATCCCAAGA
TTAAGGAGATTGCTGCAAAGCACAAAAAACCAGCCAGGTTCTGATCCGTTTCCATATCCAGAGGAA
TGTGATTGTCATCCCAAGTCTGTGACACCAGCACGCATTGTTGAGAACATTGAGTCTTTGACTTTAAA
TTGAGTGTGAGGAGATGGCAACCACTCAGCTTCAACAGAACTGGAGGGCTGTAACGTGTTGCAAT
CCTCTCATTGGAAGACTATCCCTTCGATGCAGAATAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203177 representing NM_020299
Red=Cloning site Green=Tags(s)

MATFVELSTKAKMPIVGLGTWKSPLGKVKAEAVKVAIDAGYRHIDCAYVYQNEHEVGEAIQEKIQEKAVKR
 EDLFIIVSKLWPTFFERPLVRKAFKTLKDLKLSYLDVYL IHW PQGFKSGDDLFPKDDKGNAIGGKATFLD
 AWEAMEELVDEGLVKALGVSNSHFQIEKLLNKPGLKYPVTNQVECHPYLTQEKLIQYCHSKGITVTAY
 SPLGSPDRPWAKPEDPSLLEDPKIKEIAAKHKKTAQVLRFHIIQRNVIIPKSVTPARIVENIQVDFK
 LSDEEMATILSFNRNWRACNVLQSSHLEDYPFDAEY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_020299

ORF Size: 948 bp

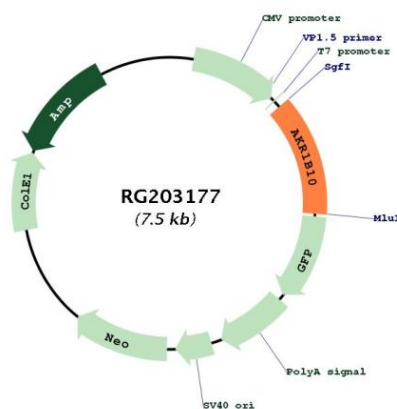
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_020299.3 , NP_064695.2
RefSeq Size:	1551 bp
RefSeq ORF:	951 bp
Locus ID:	57016
UniProt ID:	O60218
Cytogenetics:	7q33
Domains:	aldo_ket_red
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Fructose and mannose metabolism, Linoleic acid metabolism, Metabolic pathways
Gene Summary:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG203177