

Product datasheet for **RG206675**

AKR7A3 (NM_012067) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKR7A3 (NM_012067) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	AKR7A3
Synonyms:	AFAR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG206675 representing NM_012067 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCCCGGCAGCTGTCGCGGGCCCGCCAGCCACGGTGTGGCGCCATGGAGATGGGGCGCCGATGG
 ACGCGCCACAGCGCCGAGTCACGCGCGCCTTCCTGGAGCGCGGCCACACCGAGATAGACACGGCCTT
 CGTGTACAGCGAGGGCCAGTCCGAGACCATCCTTGGCGGCCTGGGGCTCCGGCTGGGCGGCAGCGACTGC
 AGAGTGAAAATTGATACCAAGGCCATTCCACTGTTTGGGAACTCCCTGAAGCCTGACAGTCTCCGGTTCC
 AGCTGGAGACGTCACTGAAGCGGCTGCAGTGTCCCGAGTGGACCTCTTCTACCTGCATATGCCAGACCA
 CAGCACCCCGGTGGAAGAGACACTGCGTGCCTGCCACCAGCTGCACCAGGAGGGCAAGTTCATGGAGCTT
 GGCTCTCCAACATATGCAGCCTGGGAAGTGGCCGAGATCTGTACCCTCTGCAAGACCAACGGCTGGATCC
 TGCCCACTGTGTACCAGGGCATGTACAATGCCATCACCCGGCAGGTGGAACGGAGCTCTTCCCCTGCCT
 CAGGCACTTTGGACTGAGGTTCTATGCCTCAACCCTCTGGCTGGGGGCTGTGACCGGCAAGTACAAG
 TATGAGGACAAGGATGGGAAACAGCCCGTGGGCCGCTTCTTGGGAATACCTGGGCAGAGATGTACAGGA
 ATCGCTACTGGAAGGAGCACCATTGAGGGCATTGCCCGGTGGAGAAGGCCCTGCAGGCCGCGTATGG
 CGCCAGCGCCCCAGCATGACCTCGGCCACCCTCCGGTGGATGTACCACCACTCACAGCTGCAGGGTGCC
 CACGGGACGCGGTATCCTGGGCATGTCCAGCCTGGAGCAGCTGGAGCAGAATTGGCAGCGGCAGAGG
 AAGGGCCCTGGAGCCGCTGTCTGGACGCCTTAATCAAGCCTGGCATTGTGTTGCTCACGAATGTCC
 CAACTACTTCCGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >RG206675 representing NM_012067
 Red=Cloning site Green=Tags(s)

MSRQLSRARPATVLGAMEMGRMDAPTSAAVTRAFLEGRGHEIDTAFVYSEGQSETILGGLGLRLGGSDC
 RVKIDTKAIPFGNSLKPDSLRFQLETSKRLQCPRVDLFYLMHPDHSTPVEETLRACHQLHQEGKFMEL
 GLSNYAWEVAEICTLCKSNGWILPTVYQGMYNITRQVETELFPCLRHFGRLRFYAFNPLAGLLTGKYK
 YEDKDGKQPVGRFFGNTWAEMYRNRYWKEHHFEGIAPEKALQAAYGASAPSMTSATLRWMYHHSQQLQGA
 HGDAVILGMSSLEQLQNLAEEGLEPAVVDFAFNQAWHLVAHECPNYFR

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012067

ORF Size: 993 bp

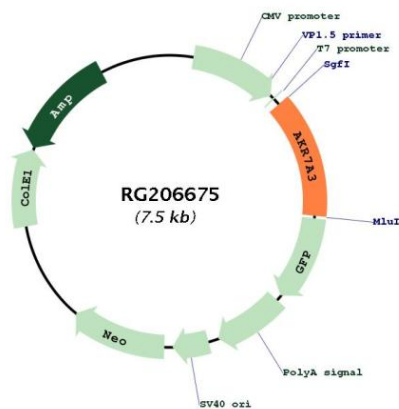
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	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:	<u>NM_012067.2, NP_036199.2</u>
RefSeq Size:	1301 bp
RefSeq ORF:	996 bp
Locus ID:	22977
UniProt ID:	<u>O95154</u>
Cytogenetics:	1p36.13
Domains:	aldo_ket_red
Protein Families:	Druggable Genome
Gene Summary:	Aldo-keto reductases, such as AKR7A3, are involved in the detoxification of aldehydes and ketones.[supplied by OMIM, Apr 2004]

Product images:



Circular map for RG206675