

Product datasheet for **SC115578**

AKR7A3 (NM_012067) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	AKR7A3 (NM_012067) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKR7A3
Synonyms:	AFAR2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115578 sequence for NM_012067 edited (data generated by NextGen Sequencing)

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ATGTCCCAGCTGTGCGGGCCCGCCAGCCACGGTGTGGGCGCCATGGAGATGGGG
CGCCGCATGGACGCGCCACCAGCGCCGAGTCACGCGCCCTTCTGGAGCGCGCCAC
ACCGAGATAGACCGCCCTTCGTGTACAGCGAGGCCAGTCCGAGACCATCCTTGGCGGC
CTGGGGCTCCGGCTGGCGGCAGCGACTGCAGAGTGAAAATTGATACCAAGGCCATTCCA
CTGTTTGGGAACTCCCTGAAGCCTGACAGTCTCCGGTTCCAGCTGGAGACGTCACCTGAAG
CGGCTGCAGTGTCCCGAGTGGACCTCTTCTACCTGCATATGCCAGACCACAGCACCCCG
GTGGAAGAGACTGCGTGCCTGCCACCAGCTGCACCAGGAGGGCAAGTTCGTGGAGCTT
GGCCTCTCCAATATGCAGCCTGGGAAGTGGCCGAGATCTGTACCCTCTGCAAGAGCAAC
GGCTGGATCCTGCCACTGTGTACCAGGCATGTACAATGCCATCACCCGGCAGGTGGAA
ACGGAGCTCTTCCCTGCCTCAGGCACTTTGGACTGAGGTTCTATGCCTCAACCCTCTG
GCTGGGGGCTGTGACCGCAAGTACAAGTATGAGGACAAGGATGGGAAACAGCCTGTG
GGCCGCTTCTTTGGGAATACCTGGGCAGAGATGTACAGGAATCGCTACTGGAAGGAGCAC
CACTTTGAGGGCATTGCCCTGGTGGAGAAGGCCCTGCAGGCCGCGTATGGCGCCAGCGCC
CCCAGCATGACCTCGGCCACCCTCCGGTGGATGTACCACCACTCACAGCTGCAGGGTGCC
CACGGGACGCGGTCATCCTGGGCATGTCCAGCCTGGAGCAGCTGGAGCAGAAGTTGGCA
GCGGCAGAGGAAGGGCCCTGGAGCCGGCTGTCTGGACGCGCTTAATCAAGCCTGGCAT
TTGGTTGCTCACGAATGTCCCACTACTTCCGCTAG
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Clone variation with respect to NM_012067.2
643 a=>g;657 c=>t;967 a=>g



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012067 unedited
 GGCACGAGGCGCGCTTCGCTCTCCGCCGCCGAGGCCGCGCGCTCGCCATGTCCCGGCC
 ACCGCCACCGCGGGTCCGCTCGGTGCTGGGCACCATGGAGATGGGGCGCCGCATGGACGC
 GCCCGCCAGCGCCGCGGCCGTGCGCGCCTTTCTGGAGCGCGGCCACACCGAACTGGACAC
 GGCCTTCATGTACAGCGACGCCAGTCCGAGACCATCTGGGCGGCCTGGGGCTCGGGCT
 GGGCGGTGGCGACTGCAGAGTGAAAATTGCCACCAAGGCCAACCTTTGGGATGGAAAATC
 ACTAAAGCCTGACAGTGTCCGGTCCCAGCTGGAGACGTATTGAAGAGGCTGCAGTGTCC
 CCAAGTGGACCTTTCTACCTACACGCACCTGACCACGGCACCCCGGTGGAAGAGACGCT
 GCATGCCTGCCAGCGGCTGCACCAAGGAGGCAAGTTCGTGGAGCTTGGCCTCTCCAATA
 TGCTAGCTGGGAAGTGGCCGAGATCTGTACCCTCTGCAAGAGCAATGGCTGGATCCTGCC
 CACTGTGTACCAGGCATGTACAACGCCACCACCCGGCAGGTGGAACGGAGCTTTCCC
 CTGCCCTCANGACTNTGGACTTGGAGGTTCTATGCCTACAACCCTCTGCCTTGGNGGGCC
 TGCTGACTGGCAAGTACAAGTATGAGGACAAAGGACGGNAACAGCNCTGGTGGGCCGNC
 TTCTTTGAGAAAAGCTGGGGCTGAGACCTACAGGAATCGCTTCTGGAAGGAGCCCACTT
 TGAGCCTTGCCTGGTGGAAAAAGCCCTGGAGCCCAATTTGCGCCAGCGCCCAAGGTGA
 CCTCGCTGCCTCCGGGGAGGACCACACTACCCTGAGGGGCCCGGGGACCCGGTCTCC
 TGGCATGTACCCCGGACATGGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012067 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTAGTTTTTGGGGTTCAC
 CAAGACCTAGGCTACAGCCAGGTCAAGTGCCTGCTTTATTCAACAGGAAGCGCTCAAGTG
 GGACTCACCCCCACCTTTCACAGTGTAAAGTGAATAGGGAGCAAGGCAGGAAGCTAGAA
 AAATAATGCATGGATCTAGACAATTCAGAAAAACCTTCTAAGTCAGCTTAAGGCCAAGA
 CTGGTCAGTGTGAGAGAACAAAAGAGGTGACAGAAAAGCCTTGGGCAGCCTGAGCCATGA
 TGGGCCTAGCGGAAGTAGTTGGGACATTCTGTGAGCAACCAATGCCAGGCTTGATTAAAG
 GCATCCACGACAGCCGGCTCCAGGGGCCCTTCTCTGTTGCTGCCACGTTCTGCTCCAGC
 TGCTCCAGGCTGGACATGCCAGGATGACCGTGTCCCGTGGGCACCCCTGCACCTGTGAG
 TGGTGTCCCTCCACCGGAGGCCATCTCCCGTCCACATGGGGGCCCACTCGCCCATATGC
 TGCCTTCCAGCGCTTCTTACACACCCACCCGGCTTCCATCGCCGCCCCCTACATACAC
 CCTCACCCGTCCGCACTACCACCCACCTATTACCTGCAACCCCCGCTCCGCCTCCCAT
 TCCCCCCCCCTTCCCTTCCCCCCCCACCATCTCCCCCCCCCCCCAGCCTCCCCCCCC
 CCTCCATCTCACACGCCTCTATTACTGACTGTACTCCTCCCGTTCTAACCCCTCCCCG
 CGCACCCTACCTCCCCCCCCGCCCTTCCCCGATCTCCCGTCTCCTCCCCCCCCC
 TCTATCCGCCCTCCCCCAATCCAATCATCCCTCCCCATACCCCCCCCATCCCTCCC
 CATCCCTTCTCAAACCTCCCTCTCAATCCCCCTCTCCCT

Restriction Sites:

NotI-NotI

ACCN:

NM_012067

Insert Size:

6000 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).

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_012067.2](#), [NP_036199.2](#)

RefSeq Size: 1301 bp

RefSeq ORF: 996 bp

Locus ID: 22977

UniProt ID: [O95154](#)

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]