

## Product datasheet for **SC120852**

### AKR7L (NM\_201252) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	AKR7L (NM_201252) Human Untagged Clone
Tag:	Tag Free
Symbol:	AKR7L
Synonyms:	AFAR3; AKR7A4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_201252, the custom clone sequence may differ by one or more nucleotides

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ATGTCCCGGCAGCTGTCGCGGGCCCGCCAGCCACGGTGTGGGCGCCATGGAGATGGGGCGCCGATGG
ACGCGCCACAGCGCCGAGTACGCGCGCCTTCTGGAGCGCGCCACACCGAGATAGACACGGCCTT
CCTGTACAGCGACGGCCAGTCCGAGACCATCCTTGGCGGCCTGGGGCTCCGAATGGGCAGCAGCGACTGC
AGAGTGAAAATTGCTACCAAGGCCAATCCATGGATTGGGAACTCCCTGAAGCCTGACAGTGTCCGATCCC
AGCTGGAGACGTCACTGAAGCGGCTGCAGTGTCCCTGAGTGGACCTTTCTATCTACATGCACCTGACCA
CAGCGCCCGGTGGAAGAGACACTGCGTGCCTGCCACCAGCTGCACCAGGAGGGCAAGTTCGTGGAGCTT
GGCCTCTCCAATATGCCGCTGGGAAGTGGCCGAGATCTGTACCCTCTGCAAGAGCAACGGCTGGATCC
TGCCCACTGTGTACCAGGCATGTACAGCGCCACCCCGCAGGTGAAACGGAGCTTCCCCCTGCCT
CAGGCACTTTGGACTGAGGTTCTATGCCTACAACCCTCTGGCTGGGGCCTGCTGACCGGCAAGTACAAG
TATGAGGACAAGGACGGGAAACAGCCCGTGGGCGCCTTCTTTGGGACTCAGTGGGCAGAGATCTACAGGA
ATCACTTCTGGAAGGAGCACCATTGAGGGCATTGCCCTGGTGGAGAAGGCCCTGCAGGCCCGGTATGG
CGCCAGCGCTCCCAGCATGACCTCGGCCGCCCTCCGGTGGATGTACCACCACTCAGAGTGCAGGGTGCC
CACGGGACGCGGTATCCTGGGCATGTCCAGCCTGGAGCAGCTGGAGCAGAAGTGGCAGCGGCAGAGG
AAGGGCCCTGGAGCCGCTGTCGTGGACGCCTTAATCAAGCCTGGCATTGTGTTGCCACGAATGTCC
CAACTACTTCATCTAA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for NM_201252 unedited</p> <pre> TAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGACCGTGTAGCCAGGATG GTCTCGAACTCCTGATCTTGTGATCTGCCTGCCTCAGCCCCCAAAGTGCCGGGATTACA GGTGTGAGCCACTGCACCCGGCTGGTTCATGCAATTCTTGTGCCTAGCCTCCCAAGTAGC AGAGATAACAGGCGTGTACAACACCCCCAGCTAATTTTTGTATTTTAGTACAGATGGG GTTTTACCATGTTGGCCAGCTTGGTCTCAAATTCCTGACCTCAGGTCATTTACCCACCTC GGCCTCCCAAAGTGTGGGATTATAGGCATGAGCCACCACATCCAGCCCTGAATTTTCAT TTCTCTTTCCTCTCAGTAAAAATTGCTACCAAGCCAATCCATGGATTGGGAACCCCTG AAGCCTGACAGTGTCCGATCCCAGCTGGAGACGCTCACTGAAGCGGCTGCAGTGTCCCCGA GTGGACCTCTTCTATCTACATGCACCTGACCACAGCACCCCGGTGGAAGAACACTGCGTG CCTGCCACCAGCTGCACCAGGAGGGCAAGTTCGTGGAGCTTGGCCTCTCCAATATGCCG CCTGGGAAGTGGCCGAGATCTGTACCCCTCTGCAAGAGCAACGGTGGATCCTGCCCACT GTGTACCAGGGCATGTACAGCGCCACCACCCGGCAGGTGGGAACGGAGCTTTCCCTGC CTCAGGCACTTTGACTGAGGTTCTATGCCTACCACCTCTGGCTGCTTTGGAAGGACA CCACTTCGAGGCATTGCCCTATGGAGAGCCCTGCAGCCGCGTATGGCGCAGCGCTTCC ACATGACCTGGCCGCCCTCCGGGGATGACCACCTCCAGCTGGAGGTGCCACCGGACCC GTATCCTGGGCTGTCCAACCTGGACAACCTGAACACACTTGGCACGCANAGAAGGN </pre>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_201252
<b>Insert Size:</b>	2600 bp
<b>OTI Disclaimer:</b>	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).
<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_201252.1</a> , <a href="#">NP_957704.1</a>
<b>RefSeq Size:</b>	2332 bp
<b>RefSeq ORF:</b>	462 bp
<b>Locus ID:</b>	246181
<b>Cytogenetics:</b>	1p35-p36.1
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

This gene is one of three aldo-keto reductase genes that are present in a cluster on the p arm of chromosome 1. The encoded proteins are involved in the reduction of the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. It has been speculated that this family member encodes a selenoprotein, which includes a selenocysteine (Sec) residue in lieu of a UGA translational termination codon. However, there is no evidence that such a protein is produced in vivo. The alternative interpretation is that this family member is a segregating pseudogene, where some individuals have an allele that encodes a functional enzyme, while other individuals have an allele encoding a protein that is predicted to be non-functional. [provided by RefSeq, Feb 2017]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).