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Product datasheet for SC214293

AKR7L (NM_001145289) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	AKR7L (NM_001145289) Human 3' UTR Clone
Symbol:	AKR7L
Synonyms:	AFAR3; AKR7A4
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_001145289
Insert Size:	1415 bp

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Insert Sequence:

>SC214293 3'UTR clone of NM_001145289
The sequence shown below is from the reference sequence of NM_001145289. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CCTGGAGCCGGCTGTCGTGGACGCCTTTAATCAAGCCTGGCATTTGTTTGCCCACGAATGTCCCAACTA
CTTCATCTAAGCTCATTGTGGCTCAGGCTGCCCAAGGCTTTTCTGTCAACTCTTTTGCTCTCTCCCGCT
TTGTCTAATTTAGAACTGCCTCACTAAATTCTTAGGGATGGAAGTATTTGGAAAAAAACCTAACAGTAG
AGTCACCACCTAAGGAAGAATAAAATCTCCCAGGGTGCTGTGTGTTAGTCTGTTTGCGTTGCTATAAAA
GAATACCTGAGACTGGGTCATGTATAAAGAAAAGAGGTTTCTTTGGCTCACAGTTCTGCAGTCTGTACA
AGAGGGTGTGGTGCCGGCATCTGCTCTTGGTGAGGGCCTCAGGAAGCTTAGAATCATGGCAGAAGGGGA
AACGGAGCCAGCGTGTCACATGGTGAGAGAGGGAGCAAGAGACAGACAGGGGAGGAAATTCACACACTG
ATGGTGGGGATGTAAAATGGTACAACCAGTTTGGAAAACAGTTTGGCAGTTTCTCAAAGGATTAAACAT
AAAATTACCATAGGATTCAGCAGTTCCACTTGTGGGTATGTAGCCAAGAGAAATGAAAACATATCTCCC
CACAAAAAAACTTGGGTATGAGATTTCACATTATCATTGCTCATAATAGCCAATAAGTAAAAACAACCC
AAATGTCCAAGAATGAATAAATGGATAAACAAAATATGGTATATTTATACAACAGACTATTATTCGGCC
ATTAAAAAAAAAAAAGAGTGGCTGACACCTGTAATCTCAGCACTTTGAGAGGCCAAGGCAGTAGGACTG
ATTGAAGACAGGAGTTCCAGACCAGTCTGGGAAACAAAGCGAGACCCTGTCTCCACTAAACATAAAAAC
AAAATTACTGGGGCCCCATGGCACACACCTGTAGTCCCAGCTGCTCGGGAAGCTGAGATGGGCGGATTG
CTTGAGCCCAGGTATTCAAGTCTGGAGTGAGCTATGACTGTGCCACTGCACTCCAGCCTGGGCGACAGA
GCAAACCCTGTTTCCAAACAAACAAACAAACAAACAAATACACAGACAGAAGTAGTTAAACATCTACAA
GGTAAGTGCATCTTGAAGACGTGTTAAGTTAAAGAAGCCAATTACAAAAGGTTTCACGTTGTATGATTT
CGTTTATATGAAATGTCCAGAATAGGCAAATCTGTTTGAGAGAGAGAAAGTAGATGAGTACTTGCCTAG
GACTGGGAGGAGGATTGCGAGGAAATGGAGATTCACTGCTAATGAGTACAGGGTTTCTTTTGGGGGCGC
TTATGAAGATGCTCTGAAATTGATTGTGATGGTTGTACAACTCTGAATACATGAAACAGCATTAAACAT
CACTTTAAGTAAGTCAAAAAAAAAAAAAAAAAAAA
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_001145289.1

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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]
Locus ID:	246181
MW:	53.1

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