

Product datasheet for **RN205965**

Akr7a3 (NM_013215) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Akr7a3 (NM_013215) Rat Untagged Clone
Tag: Tag Free
Symbol: Akr7a3
Synonyms: Afar; Akr7a1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >RN205965 representing NM_013215
Red=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGCGCAAGCCCGCCTGCCACTGTGCTGGGTGCCATGGAGATGGGTCGCCGCATGGATGTGACCTCCA
GCTCCGCGTCGGTGCAGCCTTCTGCAGCGCGCCACACGGAGATAGACACCGCCTTCGTGTATGCGAA
CGGTCAGTCTGAGACCATCCTAGGAGACCTGGGGCTCGGACTGGGCCGCGAGCGGTCGAAAGTAAAAATT
GCCACCAAGGCTGCCCAATGTTTGGGAAGACACTGAAGCCAGCCGATGTTTCGGTTCCAGCTGGAGACGT
CACTGAAGAGGCTGCAGTGTCCCGGGTGGACCTCTTCTATTTACACTTTCAGACCACGGCACTCTAT
AGAGGAGACCCTGCAGGCTGCCACCAGCTGCATCAGGAGGGCAAGTTTGTGGAGCTTGGTCTGTCCAAC
TATGTCTCCTGGGAAGTGGCTGAGATTTGTACCCTCTGCAAGAAAAATGGCTGGATCATGCCAACTGTGT
ACCAGGGCATGTACAACGCCATCACCAGGCAGTGGAGACTGAGCTCTTCCCTGCCTCAGACACTTCGG
ACTAAGTTCTACGCCTCAACCCTTGGCTGGGGCCTGCTGACTGGCAGATATAAATACCAGGATAAG
GATGGGAAGAATCCTGAGAGCCGCTTCTTGGGAATCCATTTCTCAACTGTACATGGACCGCTACTGGA
AGGAGGAACACTTCAATGGCATCGCCTTGGTGGGAAGGCTCTGAAGACTACCTATGGCCCCACTGCC
CAGTATGATCTCAGCTGCCGTACGGTGGATGTACCATCACTCACAGCTCAAGGGCACCCAAGGGGATGCA
GTCATTCTGGGCATGTCCAGTCTGGAACAAGTGGAGCAGAACTTGGCCTTGGTTCGAGGAAGGGCCTCTGG
AGCCAGCTGTTGTGGATGCCTTTGACCAAGCCTGGAACCTAGTTGCCACGAGTGTCCCAACTATTTCCG
CTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_013215



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Insert Size:	984 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:	<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_013215.1 , NP_037347.1
RefSeq Size:	1272 bp
RefSeq ORF:	984 bp
Locus ID:	26760
UniProt ID:	P38918
Cytogenetics:	5q36
Gene Summary:	Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. Probably involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.[UniProtKB/Swiss-Prot Function]