

Product datasheet for **RR205965**

Akr7a3 (NM_013215) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Akr7a3 (NM_013215) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Akr7a3
Synonyms: Afar; Akr7a1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR205965 representing NM_013215
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCGCAAGCCCGCCTGCCACTGTGCTGGGTGCCATGGAGATGGGTCGCCGCATGGATGTGACCTCCA
GCTCCGCGTCGGTGCAGCCTTCTGCAGCGCGCCACACGGAGATAGACACCGCCTTCGTGTATGCGAA
CGGTCAGTCTGAGACCATCCTAGGAGACCTGGGGCTCGGACTGGGCCGAGCGGCTGCAAAGTAAAAATT
GCCACCAAGGCTGCCCAATGTTTGGGAAGACTGAAGCCAGCCGATGTTTCGGTCCAGCTGGAGACGT
CACTGAAGAGGCTGCAGTGTCCCGGGTGGACCTCTTCTATTTACTACTTCCAGACCACGGCACTCTAT
AGAGGAGACCCTGCAGGCTGCCACCAGCTGCATCAGGAGGGCAAGTTTGTGGAGCTTGGTCTGTCCAAC
TATGTCTCCTGGGAAGTGGCTGAGATTTGTACCCTCTGCAAGAAAAATGGCTGGATCATGCCAACTGTG
ACCAGGGCATGTACAACGCCATCACCAGGCAGGTGGAGACTGAGCTCTTCCCCTGCCTCAGACACTTCGG
ACTAAGTTCTACGCCTCAACCCTTTGGCTGGGGCCTGCTGACTGGCAGATATAAATACCAGGATAAG
GATGGGAAGAATCCTGAGAGCCGCTTCTTTGGGAATCCATTTCTCAACTGTACATGGACCGCTACTGGA
AGGAGGAACACTTCAATGGCATCGCCTTGGTGGGAAGGCTCTGAAGACTACCTATGGCCCCACTGCC
CAGTATGATCTCAGCTGCCGTACGGTGGATGTACCATCACTCACAGCTCAAGGGCACCCAAGGGGATGCA
GTCATTCTGGGCATGTCCAGTCTGGAACAAGTGGAGCAGAACTTGGCCTTGGTCGAGGAAGGCCTCTGG
AGCCAGCTGTTGTGGATGCCTTTGACCAAGCCTGGAACCTAGTTGCCACGAGTGTCCCAACTATTTCCG
C

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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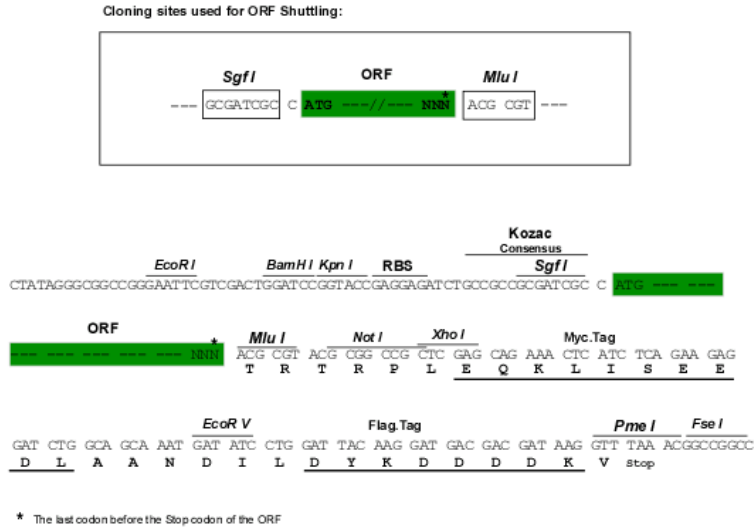
Protein Sequence: >RR205965 representing NM_013215
 Red=Cloning site Green=Tags(s)

MSQARPATVLGAMEMGRRMDVTSSASVRAFLQRGHEIDTAFVYANGQSETILGDLGLGLGRSGCKVKI
 ATKAAPMFGKTLKPADVRFQLETSLKRLQCPRVDLFYLHFPDHGTPIEETLQACHQLHQEGKFVELGLSN
 YVSWEVAEICTLCKKNGWIMPTVYQGMYNATRQVETELFPCLRHFGLRFYAFNPLAGLLTGCRYKYQDK
 DGKNPESRFFGNPFSQLYMDRYWKEEHFNGIALVEKALKTTYGPTAPSMISAARVWYHHSQKGTQGDA
 VILGMSSLEQLQNLALVEEGPLEPAVVDADFQAWNLAHECPNYFR

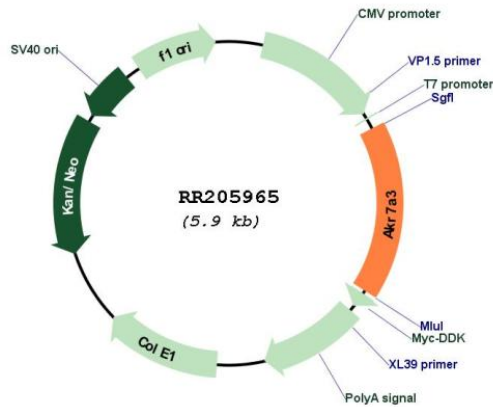
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_013215

ORF Size: 981 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:	<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
MW:	36.7 kDa
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]