

Product datasheet for MR204223

Dhrs3 (NM_001172424) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dhrs3 (NM_001172424) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dhrs3
Synonyms:	retSDR1; Rsdr1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204223 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGTGTGAAATGGCTGGGCGCGCTGGTAGTGTCCCTCTGCAAATGATCTATTTGGTAACCAAAGCAG
CCGTGGGAATGGTGTGCCCCCAAGCTTCGGGACTTGTGCGGGAGTCAGTCCTCATACCGGCGGTGG
GAGAGGCATCGGACGCCACCTCGCTCGGGAGTTCGCAGAGCGTGGCGCCAGAAAGATTGTTTTCTGGGG
CGGACTGAAAAATGCCTCAAGGAGACGACAGAGGAGATTCGGCAGATGGGCACAGAGTGCCACTACTTCA
TCTGTGACGTGGCAACCGGAAGAGGTGTACCAGATGGCCAAAGCTGTCCGAGAGAAGGTGGTGACAT
CACCATCCTGGTGAACAATGCCGCTGTGGTCCATGGAAAAAGCTTGATGGACAGTGACGATGATGCCCTC
CTCAAGTCCCAGCATGTCAACACCTGGGCCAATTCTGGACCACCAAGGCCTTTTGGCCAGTATGCTGG
AACTCCAGAACGGCCATATTGTGTGCCTCAATCCGTGCTTGCACTGTCAGCCATCCCTGGCGCCATCGA
CTACTGCACGTCAAAGCATCAGCCTTCGCCTTCATGGAGAGCCTGACCTTGGGGCTGTTGGACTGTCT
GGTGTGACGCGCCACCACCGTTCTGCCCTTTCACACCAGCACCGAGATGTTCCAGGGCATGAGAGTCAGGT
TTCCCAACCTCTCCCGCCACTGAAGCCAGAGACAGTAGCCCGGAGGACGGTAGATGCTGTGCAACAAA
CCAGGCCCTTCTCTTGCCTCCCGTGGACCATGAATATCCTCATTATCTTGAAGCATACTCCACAAGCT
GCACTGGAGGAGATTCACAGGTTCTCGGGACTTACACCTGTATGAACACCTTTAAGGGGAGGACA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204223 protein sequence
Red=Cloning site Green=Tags(s)

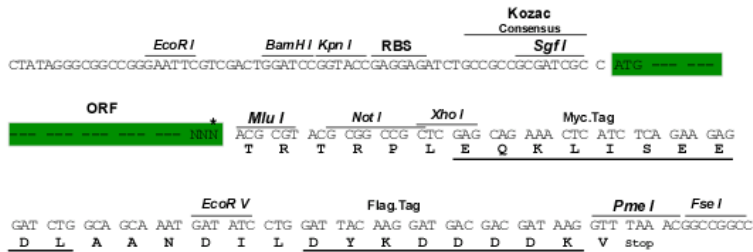
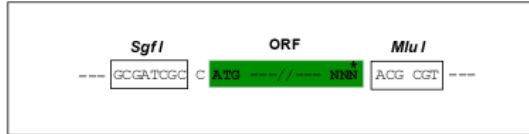
MVWKWLGALVVFPLQMIYLVTKAAVGMVLPKLRDL SRESVLITGGGRGIGRHLAREFAERGARKIVFWG
 RTEKCLKETTEEIRQMGTECHYFICDVG NREEVYQMAKAVREKVG DITILVNAAVVHGKSLMDSDDDAL
 LKSQHVNTLGQFWTTKAF LPRMLELQNGHIVCLNSVLALSAIPGAIDYCTSKASAF AFMESLTLGLLDCP
 GVSATTVLPFHTSTEMFQGMRV RFPNLFPPLK PETVARRTVDAVQQNQALLLLPWTMNILIILKSILPQA
 AL EEIHRFSGTYTCMNTFKGRT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001172424

ORF Size: 909 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:

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_001172424.1](#), [NP_001165895.1](#)

RefSeq Size: 1367 bp

RefSeq ORF: 831 bp

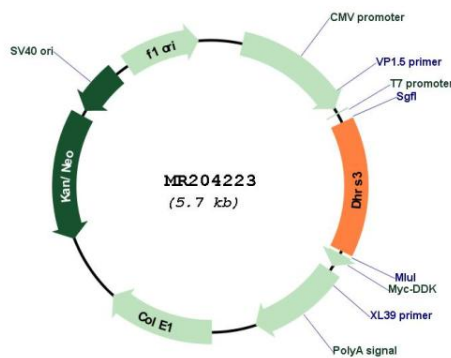
Locus ID: 20148

Cytogenetics: 4 E1

MW: 33.7 kDa

Gene Summary: Catalyzes the reduction of all-trans-retinal to all-trans-retinol in the presence of NADPH. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR204223