

Product datasheet for **RR204735**

Dao (NM_053626) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dao (NM_053626) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dao
Synonyms:	Dao1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR204735 representing NM_053626 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGCGTGGCCGTGATTGGAGCGGGAGTCATCGGACTGTCTACAGCCCTCTGCATTCATGAACGTTACC
ACCCAGCCCAACCTCTGCACATGAAGATCTATGCGGATCGCTTACGCCGTTCACTACCAGCGATGTGGC
TGCGGGACTCTGGCAGCCTTATCTCTGACCCAGCAACCCGCAGGAGGCGGAGTGGAACCAGCAAAC
TTCGATCACCTTCAGAGCTGCCTCCATTCTCAAACGCTGAGAAAATGGGCTTGGCCCTAATCTCAGGCT
ACAACCTCTCCGAGACGAAGTCCCGGACCTTTCTGGAAAAGCACAGTTCTGGGATCCGGAAGCTGAC
CCCCAGCGAGTTGGACATGTTCCCTGATTATAGCTATGGCTGGTCAACACGAGCCTCCTCTTGAGGGG
AAGAGCTACCTATCATGGCTGACTGAGAGGTTAACTGAGAGGGGAGTGAAGTTCATCCATCGGAAGGTGG
CATCTTTCGAAGAGGTGGTGAAGAGGCGTGGATGTGATTATCAACTGCACCGGGGTGTGGCCGGGGC
TCTGCAAGCAGACGCCTCCCTGCAGCCAGGCCGGGGCCAGATCATCCAGGTGGAGCCCCCTTGGATAAAG
CACTTCATCCTCACCCATGATCCCAGCCTTGGCATCTACAACCTCCATACATCATCCAGGTTCCAAGA
CAGTTACACTCGGAGGTGATTCCAGCTGGGGAAGTGGAGCGAGCTAAACAGCGTCCATGACCACAACAC
CATTTGGAAGAGCTGCTGTCAACTGGAGCCACCCTGAAGAATGCAAGAATCATGGGTGAAGTCACTGGC
TTCCGGCCAGTCCGACCTCAGGTCGGGCTAGAAAAGAGAAGCCTTCGCTTTGGATCTTCAAGTGCAGAGG
TCATCCATAACTATGGTCATGGAGGTTACGGGCTCACGATTCAGTGGGTTGTGCAATGGAGGCAGCCAA
CCTCTTTGGAAAATTCTAGAAGAAAAGAACTTGTCCAGGATGCCTCCATCCACCTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR204735 representing NM_053626
 Red=Cloning site Green=Tags(s)

MRVAVIGAGVIGLSTALCIHERYHPAQLHMKIYADRFTPFSTSDVAAGLWQPYLSDPSNPQEAewnQQT
 FDHLQSLHSPNAEKMLLALISGYNLF RDEVPDPFWKSTVLGFRKLTPELDMFPDYSYGWFNTSLLLEG
 KSYLSWLTERLTERGVKFIHRKVASFEVVRRGGVDVIINCTGVWAGALQADASLQGRGQIIQVEAPWIK
 HFILTHDPSLGIYNSPYIIPGSKTVTLGGVYQLGNWSELNSVHDHNTIWKSCCQLEPTLKNARIMGELTG
 FRPVRPQVRLERERLRFGSSSAEVIHNYGHGGYGLTIHWGCAMEANLFGKILEEKNLSRMPPSHL

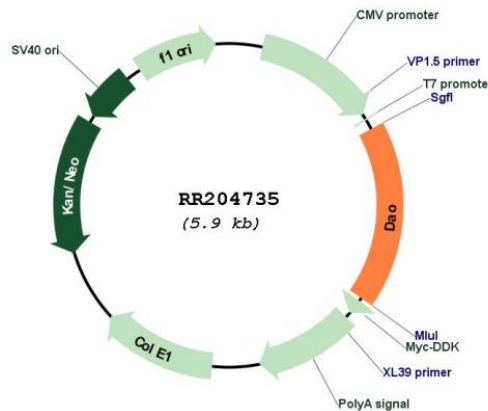
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_053626

ORF Size: 1038 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_053626.1 , NP_446078.1
RefSeq Size:	1646 bp
RefSeq ORF:	1041 bp
Locus ID:	114027
UniProt ID:	O35078
Cytogenetics:	12q16
MW:	38.8 kDa
Gene Summary:	catalyzes the conversion of d-amino acids to the corresponding alpha-keto acids; may be responsible for conversion of d-leucine to alpha-ketoisocaproic acid in the kidney [RGD, Feb 2006]