

Product datasheet for **RR215375**

Cyp2j4 (NM_023025) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cyp2j4 (NM_023025) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cyp2j4
Synonyms:	CYP2J2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR215375 representing NM_023025
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTCGCCACCGCGGGCTCTCTGGTAGCCACGATCTGGGCAGCGCTCCATCTCAGGACTCTGCTGGTGG
 CTGCACTCACCTTCTACTCCTGGCTGACTACTTCAAACCCGGCGCCCAAGAAGTATCCCCGGGGCC
 TTGGGGTCTCCATTCTGGGCAACATATTCCAGTTGGACTTTGGGCAGCCCCACCTCTCAATCCAGCCG
 TTTGTGAAGAAATATGGGAATTTTTAGCCTGAATCTTGGTGACATAACATCCGTGGTCATAACTGGAC
 TGCCCTTAATCAAAGAAACCTTTACTCACATAGAACAACATTTTGAATCGCCCTCAGTGTTATGCA
 AGAACGCATACCAATAAAAATGGATTGATCTTCTCCAGTGGTCAGACATGGAAGGAGCAAAGAAGGTTT
 GCCCTGATGACTCAGGAATTTGGCTTGGGAAAGAAGAGCTTAGAGCAGCGCATGCAGGAGGAGGCC
 ACTACCTCGTGAAGCCATAAGAGAGGAGAAAGGAAAACCTTTCAACCCTCACTTCAGTATCAACAATGC
 AGTTTCCAATATCATTGCTCTGTACCTTTGGGAGCGCTTTGAGTACCATGACAGTAGATTTCCAGGAG
 ATGCTGAGGTTGCTGGATGAGGTGATGATTTGGAGACAACAATGATAAGCCAGCTCTATAATATTTTTC
 CATGGATAATGAAGTATATTCTGGATCACATCAAACAGTTTTTCAGAAACTGGGAAAACTGAAATTTGT
 TGTCTTCTATGATCGATGATCACCGAAAGACTGGAACCTGAGGAGCCAAGAGACTTCATTGATGCT
 TTCTCAAGGAAATGTCAAAGTACCCAGAGAAGACTACAAGTTTCAATGAAGAAAACCTCATCTGCAGCA
 CCCTGGACCTCTCTTTGCGGGAACAGAGACAACATCCACTACACTGCGCTGGGCTCTGCTCTACATGGC
 CCTCTACGAGAAGTGAAGAAAAGTACAGGCAGAGATTGACAGAGTATTGGCCAGAAGAGGGCAGCA
 AGCCTGGCCGATCGAGAATCCATGCCCTATACCAATGCCGTATCCATGAGGTGCAGAGGATGGCAACA
 TCATCCCCCTGAATGTTCCAGGGAAGTAGCAATGGATACCACTTTGAATGGATTCCACCTGCCAAAGGG
 TACCATGGTTCTAACCAACCTAACTGCACTGCACAGGGACCCAAAAGAGTGGGCCACCCAGATGTGTTT
 AACCCAGAGCACTTTTTGGAGAATGGACAGTTTAAAGAAGAGAGAATCTTTTCTGCCATTCTCAATGGGAA
 AGAGAGCTTGCTTGGAGAACTGGCCAGGTCTGAACTGTTTCTTCTTCTTATGCAAAA
 ATTTACCTTCAAGCCCCAACCAATGAGAAGCTGAGCCTGAAGTTCAGAAATGGCCTCACACTTTCTCCA
 GTCACGCACCGCATCTGTGCTGTCCCTAGAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215375 representing NM_023025
 Red=Cloning site Green=Tags(s)

MLATAGSLVATIWAALHLRLLVAALFLLLADYFKTRRPKNYPGPWGLPFVGNIFQLDFGQPHLSIQP
 FVKKYGNIFSLNLGDITSVVITGLPLIKETFTHIEQNILNRPLSVMQERITNKNGLIFSSGQTWKEQRRF
 ALMTRLNFGGLGKKSLEQRMQEEAHLVEAIREEKGKPFNPHFSINNAVSNIIICSVTFGERFEYHDSRFQE
 MLRLLDEVMYLETTMISQLYNIFPWIMKYIPGSHQTVFRNWEKLLFVSSMIDDHRKDNWPEEPRDFIDA
 FLKEMSKYPEKTTSFNEENLICSTLDLFFAGTETTSTTLRWALLYMALYAEVQEKVQAEIDRVIGQKRAA
 SLADRESMPYTNAVIHEVQRMGNIIPLNVPREVAMDTTLNGFHLPGKTMVLNLTALHRDPKEWATPDVF
 NPEHFLENGQFKKRESFLPFSMGKRACLGEQLARSELFIFFTSLMQKFTFKPPTNEKLSLKFRNGLTLP
 VTHRICAVPRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_023025

ORF Size: 1503 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_023025.2](#), [NP_075414.2](#)

RefSeq Size: 2223 bp

RefSeq ORF: 1506 bp

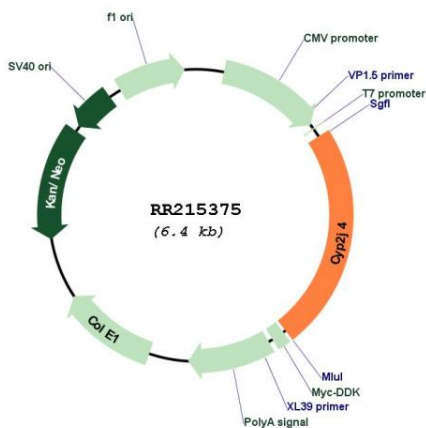
Locus ID: 65210

Cytogenetics: 5q33

MW: 57.8 kDa

Gene Summary: putative cytochrome p450 monooxygenase enzyme; constitutively expressed in lung epithelium; may be involved with rat model of pneumonia [RGD, Feb 2006]

Product images:



Circular map for RR215375