

Product datasheet for **RR217273**

Kctd1 (NM_001100516) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Kctd1 (NM_001100516) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Kctd1
Synonyms:	Vad; Vad5
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide
Sequence:**

>RR217273 representing NM_001100516
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGAGAATGCCTGGCAGCGGGGACTGTAACACCAGCGCGGGCGCAGCGCCCGCTGGGGCCGAGA
 ACAATGGGGAGCGGGGCGAGGGCGAGCGGGGCGGGGCGCGGTCCGCGCTACGGCCCGCCGATTA
 CTGCAGCGCGGGCGAGGAGGAGGAAGAGGAGGAGGACGAGATCCAGGAGTGCAGATAACGGGG
 GACGAGGAGGAGGACGGAGTGGGGGGTGGAGGAGGACGAGGAGGAGGAAGAGGAGGAGATGGGGA
 TGGACTGGGAAGAGCCCTGGAGCCAGAGGACTCGGCCGGGAGGAGCTGGAGCCCGAGCCGGTCCATAT
 GATCCATATGGACCAGAGCGCCGCTGGAGCCCGAGGCGCCACGACTGCTGGCGCCCGGGCCCGC
 GCGGGGCCCGGGGACAGCGGGAGCTGGACCCGACGTGCTGCAGCGCCCGAGCGGGCCCGGTGA
 GCGAGAACACCCGGCTGGCCACCCGCTACGCCGTGCGCATCTTCCGGGAGTACCTGAGCGAAAAGGCTCA
 GAGCCAGACTTCGAGACCATGGACAAGGGGGCGCTGTGCCGCTGCTGCGCTCTTCTATGCCGAGGCC
 CGTTCTAAGAGCGGCCAGCTCTACAGCAAGTCTCGCTCATCAGCATCCGAGCTCCCTCAACCGCTACC
 TCAACGAGCCCTTACTGTCGACGCTCGACCTCACCAAGGACCCCGAGCTGCGCAGCGCAACCTGAC
 GCTGGCCGAGTCATCCGAAGCTCGAGGAGCAGGGCGCGGGGCCGTTGGTGCAGAAGCAAGCCATCACG
 CGCGCCGACCTGCGCAAGCTCTACACCTCCAGCGTCTTCAAGCACAACACGCCCTTTGGACTGCTCAACA
 AGGTCTGGTTCGAGACGTGCATGTACTTTTGCACGCGAGGCCGCGAGAACCAGCGCGAGCTGGAGGAGGA
 CTCCTTCGGGCTGGCCATGGACGAGGACGGTCGCAAGTTCGTCTACTTCAAGTCGCTCGGGCCTTACCAC
 AAGTCGCGTTCCTCGTCTGGAGTAAGAAGCGAGCGGAGAGCAGCGACGAAGAGAAGTTCCTCGCATGT
 ACGAGACAGGCACTGAGTTCGTCCCTACGCCAGCTTTGTCAAGTACCTGTCTAAGCGCAATCCCCTGTG
 TAAGGCGTTCCTCCAGCGGCCCGGGACCCTGCAGCGAGGGCGATGTGACATGGTACGAGAACAAGCC
 ATAGGCAAGAAGTTCGTTGGCACCAGGATGCAGATGCTCTCAAGGCAGCCAAGCTGTCCAAGACCTACA
 CTAACCACTGCATCGGCGCGGTGTCCATCGCCACGCTCAACAGCATCGCGGGCATCGGGACCAAGTAGG
 CTCCCCAGCCCCGAGGGCTGCTACACCGACTCTGTAACGGGTGAGCTCGTACCACCTCCACCATGCC
 CCCACCATCCTTCCCACCACCAGCCCGCCAGCCGCTCGCTGGGTAGCACTTATATCTCCCCAAAG
 ACAGCCAGGTGGGCCCCGAGTGAAGTCCGAGGCTGCGCCCAAGCGCGCTGTACGAGTCAAGTTCGG
 GTCCGGGAAATCTCGGCCCTTCTCCCCAAAAGACTTTGTATCCGTCCCTCCTCGAACCTGTGGAT
 GCGGTGGTAGTGGTTTCCGTGAAACACGACCCCTGCCTTCTTCCAGAAGTCAATGGGACCGAAGCA
 CCAATCTCCACCATAGTTTACCTGCTATTGTTTCCCCACCCAGGACAGTCGGCCCAATATGTCAAG
 ACCTCTGATCACTAGATCCCCCGCATCGCCACTGAACAACCAAGGCATTCCAACCTCCAGCACAGCTCACC
 AAGTCCAATGCTCCCGTCCACATTGACGTGGGCGGCCACATGTACACCAGCAGCCTGGCCACCTCACCA
 AATACCCCGAATCAAGAATCGGAAGACTCTTCGATGGCACAGAGCCATTGTCTGGACAGTCTCAACA
 GCACTATTTCAATGACAGAGACGGGAGATGTTTCAGATATATCTTGAATTTCTACGAACATCAAACTC
 CTCATTCGCGATGATTTCAAGGACTACACTTTGTTGTATGAAGAGGCAAAATATTTCCAACCTCCAGCCCA
 TGTGTTGGAGATGGAGCGATGGAACAGGACAGAGAAACGAGCCGCTTTTACGGCCCTGCGAGTGCCT
 CGTGGTGGTGTGGCCCCGACCTTGGAGAAAGGATCACGCTCAGTGGGACAAGTCTTGTATAGAAGAA
 GTGTTTCCCGAGATCGGGGACGTGATGTGCAACTCCGTCATGCAGGTTGGAATCAGACTCGACGCATG
 TCATCAGGTTTCACTAAACGGCTACTGCCACCTCAACTCAGTTCAGGTCCTCGAGCGGTTGAGCAAAG
 AGGATTTGAAATGTGGTTTCTGTGGAGGAGCGTGGACTCATCCAGTTCAGTGAATACGTCCTCCGA
 CGGGAAGTGAACGACACCCCGAGTACCCTCCGTATCCGGATAAAACAGGAGCCACTGGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217273 representing NM_001100516
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MARMPGSGDCNTSAGGSAAAGAENNGERGEGERGAGGRGRRYGRPHYCSAGEEEEEEEEEDEIQEVQITG
DEEEDGGGLEEEDEEEEEEMGMDWEEPLEPEDSAGEELEPEPVHMIHMDQSAALEPEAPRLLAPRAR
AGPPGDSAELDPDVLQRPERARLSENTRLATRYAVRIFREYLSEKAQSPDFETMDKGALCRVLRSFYAEA
RSKSGQLYSKSSLSIRSSLNRYLNEPPYCRTLDLTKDPELRSANLTLAAVIRKLEEQGAGPVVQKQAIT
RADLRKLYTSSVFSTNTPFGLLNKVVWFETCMYFCTRGRNQRELEEDSFGLAMDEDGRKFVYFKSLGPYH
KSRSSWSKKRAESSDEENLPRMYETGTEFCPYASFVKYLSKRNPLCKAFFQRPRDHCSEGDVTWYENKA
IGKNLLGTRMQMLSKAAKLSKTYTNHCIGAVSIATLNSIAGIGTKLGSPAPQGCYTDSLNGSARHSHHA
PTHPSHHHRPQPSSLGSTYILPKDSQVGPDKSEAAPKRALYESVFGSGEICGPSSPKRLCIRPSSEPVD
AVVVVSVKHDPLPLPEVNGHRSTNSPTIVSPAIVSPTQDSRPNMSRPLITRSPASPLNNQGIPTPAQLT
KSNAPVHIDVGGHMYTSSLATLTKYPESRIGRLFDGTEPIVLDLQHYFIDRDGQMFYILNFLRTSKL
LIPDDFKDYTLLEYEAKYFQLQPMLEMERWKQDRETSRF SRPCECLVVRVAPDLGERITLSGDKSLIEE
VFPEIGDVMCNSVNAGWNHDSTHVIRFPLNGYCHLNSVQVLERLQQRGFEIVGSCGGGVDSQFSEYVLR
RELRRTPRVPSVIRIKQEPLD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

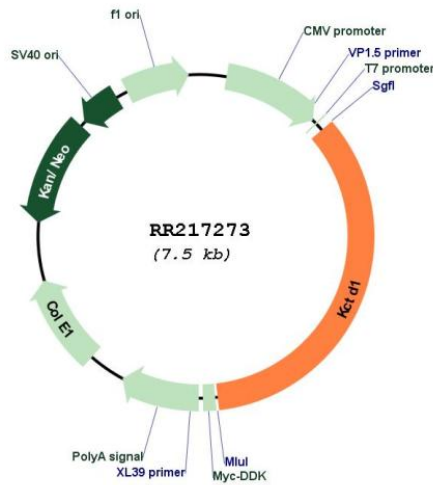
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001100516
ORF Size:	2583 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_001100516.1 , NP_001093986.1
RefSeq Size:	3431 bp
RefSeq ORF:	2586 bp
Locus ID:	291772
Cytogenetics:	18p13
MW:	96.1 kDa