

## Product datasheet for **MR215492**

### **Cdkl5 (NM\_001024624) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cdkl5 (NM_001024624) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cdkl5
Synonyms:	BC038161; Stk9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR215492 representing NM\_001024624  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAAGATTCTAACATTGGTAATGTGATGAATAAATTTGAGATCCTTGGGGTTGTCGGTGAAGGAGCCT  
 ATGGAGTTGTACTTAAATGCAGACACAAGGAAACACATGAAATTGTGGCAATCAAGAAATCAAGGACAG  
 CGAAGAAAATGAAGAAGTCAAGGAGACGACCTTACGAGAGCTTAAATGCTTCGCACTCTCAAGCAGGAA  
 AACATTGTGGAGCTGAAGGAAGCTTTTCGTCGGAGAGGAAAATTATACCTGGTGTGTTGAATATGTTGAGA  
 AGAATATGCTTGAATTGCTGGAAGAAATGCCAAATGGAGTTCCACCTGAAAAAGTCAAGAGCTATATCTA  
 CCAACTAATCAAAGCTATCCACTGGTGCCACAAGAACGACATCGTCCACAGAGATATAAAGCCTGAAAAAT  
 CTCTTAATCAGCCACAATGATGCCTGAAACTATGTGACTTTGGTTTTGCTCGCAATCTCTCAGAGGGCA  
 ATAAATGCTAATTATACAGAGTATGTGGCTACAAGGTGGTACCGATCCCCAGAAGTCTACTTGGAGCCCC  
 CTATGGAAAGTCAGTGGACATGTGGTCAGTGGGCTGTATTCTTGGAGAGCTTAGTGATGGCCAGCCCTTA  
 TTTCTGGAGAAAAGTGAATTGACCAACTCTTTACTATTCAAGAGGTGCTAGGACCACTTCCATCTGAGC  
 AAATGAAGCTCTTCTACAGTAACCTCGTTTTCCATGGGCTCCGGTTCAGCTGTAAACCATCTCAGTC  
 ATTAGAGAGAAGATACCTTGAATTTTAAATAGTGTGTTTACTTGACCTAATGAAGAATTTACTGAAGTTG  
 GACCCAGCTGACAGATACTTGACAGAGCAGTGTAAATCATCTACATTTCCAGACTCAGAGACTTTTGG  
 ACCGGTCTCCTCAAGATCAACAAAAAGGAAACCTTATCATGTGGAAAGCAGCACCCTGTCTAATAGAAA  
 CCAATCCACCAAGGGTGTGCCTTACAGACTCACCACAGATCCAACAGCAAGGACATTGAGAAGTAAAGT  
 GTGGGTCTGCCAGGGCTGAGGAAGGCTGCCTGCAAACGAAAGCTTCTCAATGGAAACCTTGTGGAG  
 CAACTCTCAGCCCAATGCACACCAAAACCTACCAAGCAAGCACCAGCCTGGCTCTTCCAGCAAAGATCT  
 CACAAACAACAACATACCACACCTTCTCAGTCCAAAAGAAGCCAAGTCCAAAACAGAGTTTGACTTCAAT  
 ATTGACACAAAGCCTTCAAGAGGTCCAGGCACAAAGTACCTCAAGTCCAGCACCAGATCTCAGCAGAACA  
 GGCACCTATTGAAAGCTCCAGAGCAAGGCTGGGACCTGCAGCCAGTGAGAAGCAGAGTCGGCA  
 CAGCTATATTGACACCATTCCCCAGTCTCCCGGAGTCCATCCTACAGGACAAAGGCCAAAAGCCATGGG  
 GCGTTGAGTGACTCCAAGTCTGTGAGCAACCTTCCGAAGCCAGAGCCCAATCAGAGACTAATACCA  
 GTAGATACTTCCATCCAGTTGTTTGGACTTGAAGTCTCCACCAGCCCAACCCACCAGGCACACTGA  
 TACGAGAACTTTGCTCAGCCCTCCGGTCGAAATAAATAGAAATGAAGGCACTCTGGACTCACGGCGAAC  
 ACCACTAGACACTCAAAAACCATGGAGGAGTTGAAGTGCCTGAACACATGGACAGCAGCATTTCGATT  
 CACTGTCTGCACCTCATGAATCATTTTCTTATGGGCTAGGCTACACCAGCCCTTCTCCTCTCAGCAGCG  
 TCCTCACAGGCATTCCATGTACGTGACCCGGGACAAAAGTGAAGGCGAAAGGCTTGTGGAAGCTTGAGC  
 ATAGGACAAGGGATGGCAGCCAGAGCCAACAGTTTGCAGCTTTATCACCCAGCCTGGAGAAGCAGCTCC  
 CTCCAGAGATGACTGTGGCAAGACCTTCTGTTAAAGAGTCTCCCGAGAAGGCGCCTTCTATTCCACAC  
 CCGTCAGAAGTCTGAGGGTGGAGTATACCATGACCACACTCTGACGACGGCACAGCTCCCAAAGAAAAT  
 CGGCATCTGTACAATGACCCTGTCCAAGGAGAGTTGGTAGCTTTTATAGAGTCCATCTCCACGACCAG  
 ACAATTTTCCATGAAAATAATGTGCTCACTCGAGTTTCTTCTCTGCCATCTGATAGCAGTTCTGGTAC  
 AAATCATTCAAAAAGACAACCAGGATTTGATCCATGAAAAGTCTGAAAACATTAGTCATGCCGATCAA  
 CTCAAAGAAAAGGAGAAGCAAGGTTTTTTCAGGTCAATGAAAAGAAAAGAAAAGAAAACCTAAACAGTGC  
 CCAACTGACGGTCTGATCTATTGACCTTACAGAAAGCCATTATTCTTCTAGCACTGCAAGCAGCAG  
 ACCAAAGGAGTGGCGACCTGAGAAGCTCTCAGATCTACAGACCCAGAGCCAACCACTAAAATCTCTTCGA  
 AAGCTGTTGATCTGTCTTCAACCAATCATCCAGTTCTTTCAGATCCTCGGTTCCAGCCCTTAACAG  
 CTCAACAAGCCAAAATCTCTCAGAAATTCGGATTACCCTCTGAGTCAGGCCACTGGTGGGAGCAG  
 CAACATCCGGCAGGAGCCTACCCAAAAGGCAGACCAGCCCTTCAGTTGCCAGGATCTTCCCTCTTAAGG  
 TACAACGGATGGAACACTCAAGATCAAGATCCAGCCAGCCAGCAAGTATCTTCTTGGCATCCCATG  
 AGAAATGGAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR215492 representing NM\_001024624  
 Red=Cloning site Green=Tags(s)

MKIPNIGNVMNKFEILGVVGEVGVVVKCRHKETHEIVAIAIKKFKDSEENEVKEKTTRELKMLRRTLKQE  
 NIVELKEAFRRRGLYLVEFYVEKNMLELLEEMPNGVPPEKVKSYIYQLIKAIHWCHKNDIVHRDIKPEN  
 LLI SHNDVLKLCDFGFARNLSEGNANYTEYVATRWYRSPPELLLGAPYGKSVDMWSVGCILGELSDGQPL  
 FPGESEIDQLFTIQKVLGPLPSEQMKLFYSNPRFHGLRFPVAVNHPQSLERRYLGI LNSVLLDLMKNLLKL  
 DPADRYL TEQCLNHPTFQTQRLLDRSPSRSTKRKPYHVESSTLSNRNQSTKGAALQTHHRSNSKDIQNLS  
 VGLPRAEEGLPANESFLNGNLGATLSPMHTKYQASTQPGSSSKDLTNNNIPHLLSPKEAKSKTEFDNFN  
 IDTKPSEGPGTKYLKSSSTRSQNRHSFMESSQSKAGTLQPSEKQSRHSYIDTIPQSSRSPSYRTKAKSHG  
 ALSDSKSVSNLSEARAQITETNTSRYFPSSCLDLNSPTPTPTRHTDTRTLLSPSGRNNRNEGTLDSRRT  
 TTRHSTMEELKLPEHMDSSHSHLSAPHEFSYGLGYTSPFSSQQRPHRHSMYVTRDKVRAKGLDGSL  
 IGQGMAARANSLQLLSPQPGQLPPEMTVARPSVKESSREGASSFHTRQKSEGGVYHDPHSDGTAPKEN  
 RHL YNDVPRRVGSFYRVPSPRPDNFHENNVSTRVSSLPDSSSGTNHNSKRQPGFDPWKPENISHADQ  
 LKEKEKQGF FRSMKKKKKTQTPNTDGPDLLTLQKAIHSSSTASSRPKEWRPEKLSDLQTQSQPLKSLR  
 KLLHLSSSTNHPASSDPRFQPLTAQQA KNSFSEIRIHPLSQATGSSNIRQEP TPKGRPALQLPGSSLLR  
 YNGWKHSR SRSSQPDEVIFLASHEKWKQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9100\\_c09.zip](https://cdn.origene.com/chromatograms/mm9100_c09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



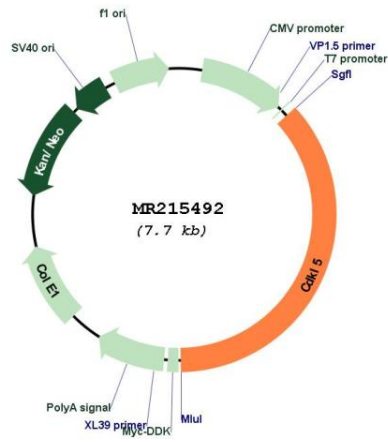
\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001024624

**ORF Size:** 2814 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001024624.2</a> , <a href="#">NP_001019795.1</a>
<b>RefSeq Size:</b>	3246 bp
<b>RefSeq ORF:</b>	2817 bp
<b>Locus ID:</b>	382253
<b>UniProt ID:</b>	<a href="#">Q3UTQ8</a>
<b>Cytogenetics:</b>	X 73.95 cM
<b>MW:</b>	105.5 kDa
<b>Gene Summary:</b>	Mediates phosphorylation of MECP2. May regulate ciliogenesis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215492