

Product datasheet for **RR203015**

Chuk (NM_001107588) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chuk (NM_001107588) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chuk
Synonyms:	lkbka; Ikka
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>RR203015 representing NM_001107588
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGGCCCCCGGGGCTGCGCCTGCGCCGCGGCCCTGGGAGATGCGGGAGAGGCTTGGCACCG
 GCGGCTTCGGGAACGTCACTCTGTACCAGCACCGGAACCTTGATCTCAAATAGCAATTAAGTCTTGTCG
 CTTAGAGCTAAGTACAAAAACAGAGAACGATGGTGCCATGAAATCCAGATCATGAAAAAGTTGAACCAT
 GCAATGTTGTAAGGCCTGTGATGTTCTGAGGAATTGAATTTTTTAATTAACGATGTGCCTCTTCTAG
 CAATGGAGTACTGTTCTGGAGGGGACCTCCGGAAGCTACTCAACAAACCAGAAAATTGTTGTGGACTTAA
 AGAGAGCCAGATCCTTTCTTTACTGAGTGACATAGGATCTGGGATTCGTTATTTGCATGAAAAACAAAT
 ATACATCGAGATCTAAACCTGAAAATATAGTGCTTCAAGATGTTGGTGGGAAGATAATGCATAAAATAA
 TTGATTTGGGTTATGCCAAGATGTCGATCAAGGAAGTCTCTGTACATCTTTTGTGGGAACATTACAGTA
 TTTGGCCCGAGCTCTTTGAAAATAAGCCATACACAGCCACTGTGGATTATTGGAGCTTTGGGACCATG
 GTGTTTGAATGTATTGCTGGATATAGGCCTTTTTGCATCATCTGCAGCCATTTACTGGCATGAAAAGA
 TTAAGAAGAAAGATCAAAGTGTATTTTGCTTGTGAAGAGATGACCGGAGAAGTTCCGTTTAGTAGCCA
 TTTACCTCAGCCAAACAACCTTTGTAGTTAATAGTAGAGCCAATGGAAGCTGGCTACAGTTGATGCTG
 AATTGGGACCCACAGCAGAGAGGGGGACCTATTGACCCTCCTTTGAAGCAGCCAAAATGCTTTGTGTTAA
 TGGATAACATCCTCAACTGAAGATAGTGCACATCCTAAATATGACTTCTGCAAAAATCATTCTTTTCT
 GTTACCATATGATGAAAGTCTCCATTCACTACAGTCTCGAATTGAGCGTGAACAGGAATAAATACAGGT
 TCTCAAGAACTTCTGTGAGAGCAGGAATTTCTCTGGATCCTCGGAAACCAGCCTCTCAATGTGTTCTAG
 ATGGAGTGAGAGGCTGTGATAGCTACATGGTTTATTTGTTTGTAAAAGTAAGACTGTATATGAAGGACC
 ATTTGCATCCAGAAGTTTATCTGATTGTGTAATTTATATTGTGCAAGACAGCAAGATACAGCTTCCAGTT
 ACACAGCTTCGCAAAGTGTGGGCTGAAGCAGTGCACATGTATCTGGGCTAAAGGAGGACTACAGCAGGC
 TCTTTCAGGGACAAGAGCAGCAATGTTAAGTCTTCTTAGATATAATGCTAACTTGACAAAAATGAAGAA
 TACTTTGATCTCAGCATCACAGCAACTCAAAGCTAAATTTGGAGTTTTTTTCGAAAAGCATTACAGCTTGAC
 TTGGAGAGATATAGTGAGCAGATGACTTATGGGATATCTTCAGAAAAATGCTGAAAGCATGGAAGAAA
 TGGAAGAAAAGGCCATTCATCTTCTGAGGTTGGTGTCTTGGATACCTTGAGGATCAAATTTATGCTTT
 GCACACTGAAATCATGGAGCTGCAGAAGAGCCCTATGGGAGACGCCAGGGAGACCTGATGGAATCCCTG
 GAACAGCGTGCCATTGATCTCTATAAGCAGCTAAAACACAGCCACCGATCACTCCTACAGTGACAGCA
 CGGAGATGGTGAAGATCATTGTGCACACTGTGCAGAGTCAGGACCGAGTTCTCAAGGAGCTGTTTGGTCA
 CCTGAGCAAGTTGTTGGGCTGCAAGCAGAAGATTATTGATCTACTCCCAAGGTGGAAGTGGCCCTCAGT
 AACATCAAAGAAGCTGACAATACTGTCTGTTTATGCAGGGAAAGAGGCAGAAAAGAAATTTGGCACCTCC
 TTAATAATTGCTTGTACACAGAGTTCTGCTCGCTCTTGTAGGATCCAGTCTAGAAGGCACAGTAACCCC
 TCCAGTATCAGCATGGCTGCCCCCTACTCTAGCAGACCGTGAACATCCTCTGACATGTGTGGTAACCTCT
 CAAGATGGCGAGACGTTAGCACAAATGATAGAAGAAAATCTGAACTGTCTGGCCATTTAAGTACTATTA
 TTCGTGAAGCAAATGAGGACCAGAGCAGTAGTATGATGAGTCTTGATTGGAGTTGGTTAGCAGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203015 representing NM_001107588
 Red=Cloning site Green=Tags(s)

MERPPGLRPGAGGPWEMRERLTGGFGNVSLYQHRELDLKI AIKSCRLELSTKNRERWCHEIQIMKKLNH
 ANVVKACDVP EELNFLINDVPL LAMEYCSGGDLRKL LNKPENCCGLKESQILSLLSDIGSGIRYLHENKI
 IHRDLKPENIVLQDVGGKIMHKIIDLGYAKDVDQGLCTSFVGT LQYLAPELFENKPYTATVDYWSFGTM
 VFECIAGYRPFLLHLLQPFTWHEKIKKKDPKCIFACEEMTGEVRFSSHL PQPNNLCSLIVEPMESWLQML
 NWDPQQRGGPIDPPLKQPKCFV LMDNILNLKIVHILNMTSAKII SFLLPYDESLHSLQSRIERETGINTG
 SQELLSETGISLDPK PASQCVL DGVRCDSYMVYLFDKSKTVYEGPFASRSLSDCVNYIVQDSKIQLPV
 TQLRKVWAEAVHYV SGLKEDYSRLFQGGRAAML SLLRYNANLTKMKNTLISASQQLKAKLEFFRKS IQLD
 LERYSEQMTYGISSEKMLKAWKEMEKA IHYSEVGVIGYLEDQIMSLHTEIMELQKSPYGRRQGDLMESL
 EQRAIDLKYLKHRPTDHSYSDSTEMVKIIVHTVQSQDRVLKELFGHL SKLLGCKQKIIDLLPKVEVALS
 NIKEADNTVMFMQGRQKEIWHLLK IACTQSSARSLVGS SLEGTVTPPVSAWLPPTLADREHPLTCVVTP
 QDGETLAQMIEENLNCLGHLSTI IREANEDQSSMMSLDWSWLA E

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001107588

ORF Size: 2235 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_001107588.1](#), [NP_001101058.1](#)

RefSeq Size: 3526 bp

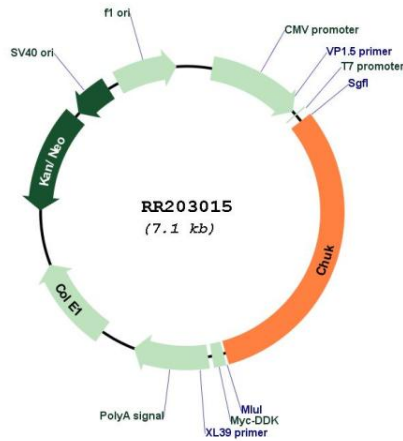
RefSeq ORF: 2238 bp

Locus ID: 309361

Cytogenetics: 1q54

MW: 84.8 kDa

Product images:



Circular map for RR203015