

Product datasheet for **RR217035**

Chat (NM_001170593) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chat (NM_001170593) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chat
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide
Sequence:

>RR217035 representing NM_001170593
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCATCTGAAAAGGCTCCCCAAAAGATGCCTGTAAAGGCTTCTAGCTGGGAGGAGCTGGACTTAC
CTAAATTACCAGTGCCCCGCTGCAGCAAACCCTGGCCACCTACCTACAGTGCATGCAGCATCTGGTACC
TGAAGAGCAGTTCAGGAAGAGCCAGGCCATTGTGAAGCGGTTTGGGGCCCCTGGTGGCCTGGGTGAGACC
CTGCAGGAAAAGCTCTTGGAGAGACAGGAGAAGACAGCCAATTGGGTCTCTGAATACTGGCTGAATGACA
TGTACCTGAACAACCGCCTGGCCCTGCCAGTCACTCCAGCCCTGCTGTGATCTTTGCTCGGCAGCACTT
CCAAGACACCAATGACCAGCTAAGATTTGCAGCCTGCCTCATCTCTGGTGTGCTTAGCTACAAAACCTCTG
CTGGACAGCCACTCCCTCCCACTGACTGGGCCAAGGGGAGCTCTCAGGGCAGCCCTCTGTATGAAGC
AATATTACAGACTCTTCTCTTACCAGCTTCTGGCCATACCCAGGACACACTGGTGGCCAGAAGAG
CAGTATCATGCCGAGCCTGAGCATGTCTCGTGGCCTGCTGCAACCAGTTCTTTGTCTGGATGTTGTC
ATTAATTTCCGCGTCTCAGTGAGGGTGTCTGTTCACTCAGTTGAGAAAAGATAGTCAAAAATGGCGTCCA
ACGAGGATGAACGCCTGCCTCCAATCGGCCTGCTGACGTGACACGGGAGGAGCGAGTGGGCCAAGGCCAG
GACGGTCTCTTAAAAGACTCCACCAACCGGGACTCCCTGGACATGATCGAGCGCTGCATCTGCCTGGTA
TGCTGGATGGTCCAGGCACAGGAGAGCTCAGTGACACCCACAGGGCCCTCCAACCTTCCAGGTGGAG
GCTGCAGCCTGAACGGAGCCAATCGCTGGTATGACAAGTCCCTGCAGTTCGTGGTGGGCCGAGATGGCAC
CTGCGGTGTGGTGTGAGCATTCTCCATTTGATGGCATCGTCTGGTGCAGTGCACAGAGCACCTGCTG
AAACATATGATGACAAGCAACAAGAAGCTCGTCAGGGCTGACTCAGTGAGTGAGTCCCTGCCCCAGAA
GGCTGAGGTGAAATGTTCCCCAGAAACCAAGGCCATCTCGCTCCTCAGCAGAGAAAACCTTCAAAGAAT
AGTAAAGAATCTGGATTTCAATTGTTTACAAGTTTGACAACATGGAACAAACATTTATCAAGAAGCAGAAA
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CCACCTATGAGAGCGCATCCATCCGCCGCTTCCAGGAAGGTGGGTGGACAACATCAGATCAGCCACTCC
AGAGGCTCTGGCTTTTGTGCAAGCCATGACTGACCACAAGGCTGCCATGCCGGCTTCTGAGAAACTGCAG
CTGCTGCAGACAGCCATGCAGGCCAGACTGAGTACACAGTATGGCCATAACCGGCATGGCCATTGACA
ACCATCTTCTGGCACTGAGGGAGCTGGCCGAGACCTGTGCAAAGAGCCACCTGAGATGTTTCATGGATGA
AACATACCTGATGAGCAACCGGTTTGTCTCTCCACCAGCCAGGTGCCACAACCATGGAGATGTTCTGC
TGTTATGGACCCGTGGTCCCAATGGCTATGGAGCCTGCTACAACCCCCAGCCGAGGCCATCACCTTCT
GCATCTCCAGTTTTACAGCTGCAAAGAGACCTCGTCTGTGGAGTTTGGCGAAGCTGTGGGAGCGAGCCT
TGTTGACATGAGAGACCTCTGCAGTTCAAGGCAGCCTGCTGACAGCAAGCCACCAGCACCAAGGAAAAA
GCTAGGGGCCAACCAAGCCAAGCAATCTTGACTCCAGCCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217035 representing NM_001170593
Red=Cloning site Green=Tags(s)

MPILEKAPQKMPVKASSWEELDKLPVPLQQTALATYLQCMQHLVPEEQFRKSQAIVKRFGAPGGLGET
 LQEKLLERQEKANWVSEYWLNDMYLNNRALPVSPPAVIFARQHFQDNDQLRFAACLSGVL SYKTL
 LDHSLPTDWAKGQLSGQPLCMKQYYRLFSSYRLPGHTQDTLVAQKSSIMPEPEHVIVACCNQFFVLDV
 INFRRLESGDLFTQLRKIVKMASNEDERLPPIGLLTSDGRSEWAKARTVLLKSDSTNRDSLDMIERICLV
 CLDGPGETGELSDTHRALQLLHGGGCSLNGANRWYDKSLQFVVRDGTGCVVCEHSPFDGIVLVQCTEHL
 KHMMSNKKLVRADSVSELPAAPRRLRWKCPETQGHASSAEKLRIVKNLDFIVYKFDNYGKTFIKKQK
 YSPDGFQVALQLAYRYLQRLVPTYESASIRRFQEGRVDNIRSATPEALAFVQAMTDHKAAMPASEKLQ
 LLQTAMQAQTEYVMAITGMAIDNHLALRELARDLCKEPPPEMFDETYLMSNRFVLSTSQVPTTMMEMFC
 CYGPVVPNGYGACYNPQPEAITFCISSFHCKETSSVEFAEAVGASLVDMRDLCSSRQPADSKPPAPKEK
 ARGPTKPSNLDSSH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001170593

ORF Size: 1932 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_001170593.1](#), [NP_001164064.1](#)

RefSeq Size: 3599 bp

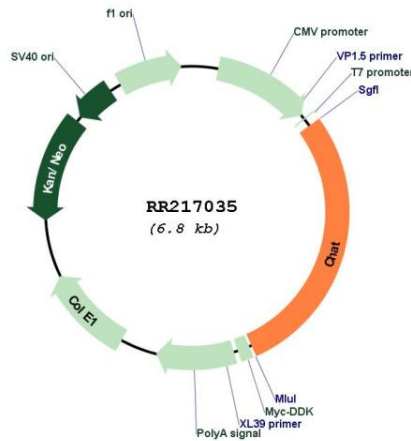
RefSeq ORF: 1935 bp

Locus ID: 290567

Cytogenetics: 16p16

MW: 72.4 kDa

Product images:



Circular map for RR217035