

Product datasheet for MC224444

Cecr2 (NM_001128151) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Cecr2
Synonyms:	2610101O16Rik; 2810409N01Rik; Gtl4; mKIAA1740
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224444 representing NM_001128151 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGTGCCCCGAGGAAGGCGGCCGGCTGGGCGAGCTCCGCTCCTGGTGGGAAGTCCCGGCCATCG
CGCACTTCTGCTCGCTCTTTCGCACGGCGTTCCGCCTGCCGACTTCGAGATCGAGGAGTTAGAGGCAGC
TCTTCACAGAGATGACGTGGAGTTTATCAGTGATCTGATTGCGTCTGCTTCAAGGCTGCTATCAGCGA
AGAGATATCAGCCTCAGACATTCACAGCTACTTGAAGATATCATTAACTACCGTTGGGAGCTTGAAG
AAGGAAAGCCCAATCCTCTGAGAGAAGCTAGTTTCCAAGACCTTCCTCTGCGTACTCGAGTAGAGATCCT
GCATCGCCTCTGTGATTACCGGCTTGATGCAGATGATGTCTTTGATCTTCTCAAGGGTCTGGATGCAGAC
AGTCTCAGAGTTGAACCTCTGGGTGAAGACAATCAGGTGCACTCTACTGGTACTTCTATGGGACACGAA
TGTAACAAGAAGACCCAGTACAAGGAAGGTCCAATGGAGAATCTCCTTGTGCAGGGAAGTGAAAGGCA
AAAAAATGTCTCAAATGTTCTGGAAAAACAGGCAAAAGAAGGAAGGCCTCCAAAGCGAAAAAAGCTA
CAGGAGGAGATTATATCCAGTGAAGCAGGAAGAAACTCCTTGACATCTGACCTACAGACAAGAAATG
GATCCCGAGGGCCAGGCCAAGGTACTTGGTGGCTCCTGTGTCAAACAGAAGAAGATGGAGACAGGTAC
TGAGAGCTTCCGAGAGCGGACCTCTCTCCGAGAGCGGCAACTCTACAAGCTCCTTAGCGAGGACTTCCTG
CCTGAAATTTGCAACATGATTGCCCAAGAGGAAAAACGTCCACAGCGCACAAAGCCAGAGTTGCAACATA
GGTTTATGTCTGACCACCTGTCCATCAAATCCATCAAGCTAGAGGAAACTCCCATGCTACCAAGATAGA
AAAACAGAAGCGCAGGGAGGAGGAGGAGGAGCGACAGCTCCTTCTGCGGTGCAGAAGAAGGAGCAAGAG
CAGATGTTAAAGGAGGAGAGAAAGCGGAAATGGAGGAAAAGGTCAAGGCAGTGAAGATCGAGCTAAGA
GGAGAAAGCTCAGGGAAGAACGAGCATGGCTATTGGCTCAAGGCAAGGAGCTACCCCAAGAACTTTCCCA
TTTGGACCTGAATTCTCTATGAGGGAAGGGAAGAAGCAAGGACCTCTTTGAATTGGATGACGATTTTC
ACAGCCATGTATAAAGTTCTAGATGTGGTGAAGGCTCACAGGATTCCTGGCCCTTCTTGAACCTGTGG
ATGAATCGTATGCCCCAACTATTACCAGATTATTAAGATCCCCATGGATTTTCAAGCATGGAGAAGAA
ATTAACGGAGGTTTATATTGTAACAAGGAGGAATTTGTAATGACATGAAGACCATGTTTCAGAAATTGC
CGAAAAATACAATGGTGACAGTAGTGAGTATACCAAGATGTCTGACAATTTAGAGCGGTGTTTCCATCGGG



CCATGACAAAACATTTTCCTGGTGAAGATGGAGACACAGATGAAGAATTTGGATCAAAGAGGATGAAAA
ACGGGAAAAAAGAAGTCCGCTCTGGTAGAAGTAGTGGAAGCCATGTTTGGACGCGCTCCAGAGACACA
GAAGGGTCGAGCAGGAACAGCCACAGTGGAGAATGGGGAAAAATCATTGCCCCGGCAGCCGAGCTG
CCTCCTCAGGGGACGATCAGAGTAGGAGTTCCATACAACTCCCTCCAGAGAGGCCAGCAGCACCAGGAAC
ATTTGGCTCTCTTCAAGGATCAGATCCCACCACTTACATGGCTCCTCTAGAATCCCAGAGGCTCCCCCA
GGAGAGCCCTTGCAACACCCACCTTTGCTATACAGGCTCCAGTTGGAATTAGTAACCATCGGGGATCCC
TGCTCAGTGCTCCAGACCTTTCCAATATGGGTACATGTCCCATCCTTACAGCTTGGGCAGATGAATTG
TCCCAGTCAAGATGAAACATGTATCCACCAGCTCCATTCCAGGCAGGATTTATCCTTCTAGGCATGGT
GGGACTCCAGCCCAGCCCCAGACTTTCTGAAAGCTCTGAAATTCCTCCCGGTCATATTTATCATTCTAT
ACAAGTATCTAAATCGAGCACACCTGTGTTTGAATGGGAACCATGGTACTACAACCTTGACGCTTT
GGGGCCAGATGAGAAGCCCCACCTGGGGCCAGGACCTCTCACCACCTCATACCTTTGGTCATATGATG
GATGGCCGAGTGATGAGACAACCTATCCCAACCAACAGTGGACTAAACAGTCAAGCTTTCTACCTCATG
GAGTTCCTTCTCGGGTATATGCAGCCACCTGTAAGTCTGCTGGACATCGTTTGCAGCCACCTCCAAC
TCCAGCACCAAGTCTCGATTGAGAGGCCCTCCAGGCCCTCCGGGGGCACAAGGAGGGGAATCCATG
ATGGACAGCCCTGAAATGATTGCCATGCAGCAGCTCTCTCCCGAGTCTGTCCCCAGGTGTGCTTACC
ACCCCCGCCAGCCCACTCTCCCGAGTTACCTGGTCCCTTTCCGAGGTAGCTCATTAGCTTCAGTCTG
TGTGTGCGGCCCAAGCTGCATTGGACAACCTGGGAGTACACAGGAGATGACTGAAACACACGAGCCC
GAGGAAGACCCAGCAGACCTTTGCTGGACATGAAGAGAAAGCAGCAAGCATTTGTTCTTCAGAGGGGG
TATACCTCAAACAGCTACCTCACCAGCACCTCCCTTGCAAGCCAGCTGTACCAGGCAAAGCTCACCACA
AGAAAGGGAAACAGAGGACTCCCAACTCAAAAGTGATGCTTCAGACTCTGCAGACACTTAAAGACATCA
AAGAACAAGAACACCTGGCCTTTGGACAATAGCTACAGCAGCCAGCTGTGCAAGGCTGTTTGAGGGACC
TCTCCATAGTGGCAGAGACGGGAATCTACCTGAAAATGGGGTCTTGGTGAAGCATCTCCCTGTAGGTC
AGAGGGGAAGGGCTTGATGGTAGTGGTTAGAAAAGCCACTCTGCCCCAGGGGTAAACATTGCAAGAA
GCCGTGCCATGTACAGGACCGAATGCAACTACACCTCCTTGACAGATCCAGTTTGTATGGCAGCCACTG
TGAACCAAGTTTCTCCCTTATACATGCCTGGCATAGAATACTCTAACTCAGCTACACAGTACCCTATGAG
TCCAAGTTTGCAAGTTTGGCCTCTATGATGGGAGGAAAGTCTCAGGATCACAACTCAGTCCCTTCTCT
CCCAGGGGTTTCCAGGCTAATGGTCCCCACCTGGACTCTTCTCGGTACCGTCTCAGCAGGGGAATGA
GATATTCTCTACCAGCCGCTTCTCAGCCTTCTACCACCCCTATCAGCGGACTCCTTATTATACATGTCC
ACAGGGCTTTTCTGATTGGCAGAGATCTCTCCCTTCCAGAGAAGCCCAAGTGGACCCCAAGGAAGTAC
CCTCCACGCTCCCTCTTTTCCAGAGAAGATGTCTGTCTAGTCTGCAAGGTTGTGAAACATTAATACTG
CCTTAACCTTCTCAACTCAAATGGATGTAGTACTGCTAAAGTTGTTCTCTGATGGACACAATTCTGG
TCCAGAAGAAGAAAAGATGGATGAATCTGTGGAGAGGCCAGAGAGTCCCAAGAATTTCTAGATCTCGAC
AACCATAATGCAGTACCAAGCGGCAGAACTCACTGTCAACCAAGTACTATCTTTATGGAATCCACCAC
CATCTCTGAGTTGAGGAATGACTTTTGGTTCACTGCTTTCCACCCACAGTGTGATGTGTCAGACAGG
GTCTCCATACACTCTCAGCGATCAGCCAGTCATTTTCCAGCCAGGGCATAACCATCCCTGTGCTGCTG
CATCCACCTCCCATCCAGTAGCCACCCCAATGGCCTCTCTCCAGAGGATTCCCTCTACTGCTGTG
AGGAAGAGGGCCTAGGTCATTTTCCAGGCTTCGATGATGGAGCAGACTGGTACCGGAAGCGGATTAAGAGG
CTCATTTCAAGAAGTACACAGACCACAGGATTGCAGATGCATCCAGTGCAGTCACAGTCTTATTTCCCA
AAGACCCCGCACCTGCAGCATCACCAGAACAGTTGCCACCGCATAGACCCCAACGCTTCTCTGGATC
AGAGCTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:

SgfI-MluI

ACCN:

NM_001128151

Insert Size:

4278 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001128151.1 , NP_001121623.1
RefSeq Size:	9213 bp
RefSeq ORF:	4278 bp
Locus ID:	330409
UniProt ID:	E9Q2Z1
Cytogenetics:	6 56.97 cM
Gene Summary:	Chromatin reader component of histone-modifying complexes, such as the CERF (CECR2-containing-remodeling factor) complex and ISWI-type complex (By similarity). It thereby plays a role in various processes during development: required during embryogenesis for neural tube closure and inner ear development (PubMed:15640247, PubMed:20589882, PubMed:21246654). In adults, required for spermatogenesis, via the formation of ISWI-type chromatin complexes (PubMed:22154806). In histone-modifying complexes, CECR2 recognizes and binds acylated histones: binds histones that are acetylated and/or butyrylated (By similarity). May also be involved through its interaction with LRPPRC in the integration of cytoskeletal network with vesicular trafficking, nucleocytosolic shuttling, transcription, chromosome remodeling and cytokinesis (By similarity).[UniProtKB/Swiss-Prot Function]