

Product datasheet for **SC122963**

C14orf169 (NM_024644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C14orf169 (NM_024644) Human Untagged Clone
Tag:	Tag Free
Symbol:	C14orf169
Synonyms:	C14orf169; hsNO66; JMJD9; MAPJD; NO66; ROX; URLC2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_024644 edited
GCTTTAGCTTCGGCCCCGGCCGGGCGGGGAAGACTGGTGTGGTCTGGCCATGGATG
GGCTCCAGGCCAGTGCAGGGCCGTTGAGGCGGGGCGCCGAGGCCGCGGCAAGCCCC
AGCCACACAGCGGGTCCGTCCTGGCCCTGCCCTTGAGGTCCAGGAAGATACGAAAGCAGC
TGCGAAGTGTGTATCCCGCATGGCAGCGCTGAGGACGACAGCTGCCTAGCGAGAAGT
CGGAGGAATCGAGGGTGGAGTGCAGCGCCGACGACCTGGGGGACGCGCTACCCGGTGGG
CGGCGGTGGCGCCGTCGCGGACGACGCCGGCGAGAGCCATACGGCCACCTGGGGCCCCG
CAGAGCTGCTGGAGGCCGCCCCGCCGCGCTCCCTGCAGACCCGTCGGCGCGCCTGG
TGCCCGCTTCGCGCCGCCCCGCGCGCTGGTGGAGGTGCCCGCCGCGCCGGTCCGGGTGG
TGGAGACCTCGGCCCTGCTGTGCACCGCAACACTTAGCGGCCGTCCAGTCGTCCGGGG
CCCCTGCGACGGCGTCGGGGCCGAGGTGGATAACACGGGTGGGGAGCCGGCCTGGGACT
CCCCGCTGCGGCGCTTTGGCCGAGCTGAACCGCATCCCAGCAGCCGGCGGCGAGCGG
CCCGCCTCTTTGAGTGGCTCATCGGCCCATGCCGCCAGATCACTTCTACCGGCGCTAT
GGGAGCGCGAGGGGTGCTGGTGGCGCGCAGGACCACACTACTACCAGGGACTTTTCT
CTACCGCTGACCTGGATTGATGCTGCGCAACGAGGAGGTGCAGTTCGGCCAGCATTGG
ACGCCGCTCGCTACATCAACGGACGACGCGAGACCCTGAACCCACCCGGCGCGCCTGC
CCGCCCGCGCTGGTCCCTGTACAGGCCGGCTGCTCCCTGCGTCTCCTCTGTCCGAGG
CTTTCTACTACTGTGTGGCAGTTTTTGGCTGTGCTTCAAGAGCAGTTTGAAGCATGG
CAGGCTCCAACGTTTACCTCACGCCCCCTAACTCGCAGGGCTTTGCCCCCACTACGACG
ACATCGAGGCCTTCGTGCTGCAGCTGGAAGGTAGGAACTCTGGCGTGTATACCGACCCC
GAGCCCCAACCGAGGAAGTGGCTCTGACATCCAGCCCCAACTTCACTCAGGACGACCTCG
GTGAGCCGGTCTGACAGCCGTGCTGGAACCTGGAGATTTGCTGTATTTTCTCGGGGCT
TCATTACCAAGCTGAATGCCAGGATGGAGTCCACTCTGACACCTCACCTTGTCCAGCT
ACCAGCGCAATACCTGGGGTGACTTCTTAGAGGCCATACTGCCTCTGGCAGTGCAGGCTG
CAATGGAAGAAAATGTGGAGTTTCGAGGGGTCTGCCCGAGACTTCATGGATTACATGG
GGGCCAGCATTAGATTCTAAGGATCCGCGAAGAACCGCTTTCATGGAGAAGGTGCGGG
TCTTGGTTGCCCGCCTGGGACACTTTGCTCCTGTTGATGCTGTGGCCGACCAGCGAGCCA
AAGACTTCATTACGATTCTCTGCCCCGTGTTTGGACTGATAGGGAGAGGGCACTAAGTG
TTTACGGGCTTCCAATTCGCTGGGAGGCTGGAGAACCTGTAACGTGGGGGCCAGTTGA
CAACAGAAACAGAAGTCCATATGCTTCAGGATGGGATAGCTCGGCTGGTGGGTGAGGGG
GCCATTTGTTTCTATTACACAGTGGAAAACCTCCCGTGTGTATCATCTGGAAGAACCCA
AGTGCTTGGAAATATACCCCAGCAAGCTGATGCCATGGAAGTGTGCTTGGTTCTTATC
CAGAGTTTGTGAGAGTGGGGGACCTGCCCTGTGACAGTGTGGAGGACCAGCTGTCCTTGG
CAACCACGTTGTATGATAAGGGGCTGCTGCTCACTAAGATGCCTTAGCCCTAAATTAGT
TTCTTGTGATTGCTGGAACAAGGCAGTAGTGATTCTCCGCTGCCACTGCTACCTTTTT
TTTTTTTTTTTTTCTTAAACTCACGTTCTTACCTTGATAAGCATCAGTGTGCTCACAT
TTACCTTTATCACTGCTTCAGTGCACAAACCTCGGAAGGTCTTCTAGGAAGAACCATCT
CATCTAGGTACAAAAGGAAAAGGAGAAGTTGGAGGTGGAAAAAACCCTTGATCCGTGA
TCATTTACAGAGCACCAACTTCATCACCTCAGGCTTCAGTGTACTGGGTAACACTGACCA
TGTCGTTCTGCTTGAGACAGATATTAGATTTTTTTTGAATTTGGATCTTTCATCTGAGT
TCTTTTTCATGGGCGGGTCGGGGTCAGTATCCTGTTTGTATTGTTAAATTTGTATGAAC
CTTAGAAAAGTTATTAAGTGCCAAAGAATGTTAAAAAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_024644 unedited NNCGGCCGCACACTTCCCAGGGTATCGTCGACCCACGCGTCCGGCTTTAGCTTCGGCCCC GGCCGGCCGGGCGGGGAAGACTGGTGTGGTCTGGCCATGGATGGGCTCCAGGCCAGTGCA GGGCCGTTGAGGCGCGGGCGGCCGAGGCCCGGCGCAAGCCCCAGCCACACAGCGGGTCCG GTCCTGGCCCTGCCCTTGAGGTCCAGGAAGATACGAAAGCAGCTGCGAAGTGTGTATCC CGCATGGCAGCGCTGAGGACGCAGACGCTGCCTAGCGAGAAGTCCGAGGAATCGAGGGTG GAGTCGACGGCCGACGACCTGGGGGACGCGCTACCCGGTGGGGCGGCGGTGGCGGCCGTC CCGGACGCAGCCCGGCGAGAGCCATACGGCCACCTGGGGCCCGCAGAGCTGCTGGAGGCC TCGCCCGCCGCGCTCCCTGCAGACCCCGTCAGCGCGCCTGGTGCCCGCTTCCGCGCCG CCCGCGCGCTGGTGGAGGTGCCCGCCCGCGGTCCGGGTGGTGGAGACCTCGGCCCTG CTGTGCACCGCGCAACACTTAGCGGCCGTCAGTCTGTTCCGGGGCCCTGCGACGGCGTC GGGGCCGAGGTGGATAAACACGGGTTGGGGAGCCGACTGGGACTCCCCGCTGCGGCGC GTTTTGGGCGACCTGAACCGCATCCCCCGCATCTGGGGCGAGGGGCCGTTTTTTTGA TTGGCTTATCGGCCCTTGCCGCCGATACTTTTTTCCGGGGCCATGGGAACCCCAAGGC GGTACCTGGGCGCGGCCTGGCCTCCCCTAACAGGGGCTTTTTTCTCCCCTGCACCG GTTTCATGCCTGAAAATAGGGAGTGCAGTTCGGCACCATAGAATACCATTCCGACAACA A
Restriction Sites:	Please inquire
ACCN:	NM_024644
Insert Size:	2453 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:	<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:	<u>NM_024644.1</u> , <u>NP_078920.1</u>
RefSeq Size:	2469 bp
RefSeq ORF:	1926 bp
Locus ID:	79697
UniProt ID:	<u>Q9H6W3</u>
Cytogenetics:	14q24.3
Protein Families:	Druggable Genome

Gene Summary:

Oxygenase that can act as both a histone lysine demethylase and a ribosomal histidine hydroxylase. Specifically demethylates 'Lys-4' (H3K4me) and 'Lys-36' (H3K36me) of histone H3, thereby playing a central role in histone code. Preferentially demethylates trimethylated H3 'Lys-4' (H3K4me3) and monomethylated H3 'Lys-4' (H3K4me1) residues, while it has weaker activity for dimethylated H3 'Lys-36' (H3K36me2). Also catalyzes the hydroxylation of 60S ribosomal protein L8 on 'His-216'. Acts as a regulator of osteoblast differentiation via its interaction with SP7/OSX by demethylating H3K4me and H3K36me, thereby inhibiting SP7/OSX-mediated promoter activation (By similarity). May also play a role in ribosome biogenesis and in the replication or remodeling of certain heterochromatic region. Participates in MYC-induced transcriptional activation.[UniProtKB/Swiss-Prot Function]