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Product datasheet for SC123042

CBX2 (NM_032647) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CBX2 (NM_032647) Human Untagged Clone
Tag:	Tag Free
Symbol:	CBX2
Synonyms:	CDCA6; M33; SRXY5
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_032647 edited
GACTGGCGGCGGGCGCCGCGGTCGGGCTGGCTGCCGGGCAGCATGGAGGAGCTGAGCAGC
GTGGGCGAGCAGGTCTTCGCCGCCGAGTGCATCCTGAGCAAGCGGCTCCGCAAGGGCAAG
CTGGAGTACCTGGTCAAGTGGCGCGGCTGGTCCTCCAAACATAACAGCTGGGAGCCGGAG
GAGAACATCCTGGACCCGAGGCTGCTCCTGGCCTTCCAGAAGAAGGAACATGAGAAGGAG
GTGCAGAACCGGAAGAGAGGCAAGAGGCCGAGAGGCCGGCCAAGGAAGCTCACTGCCATG
TCCTCCTGCAGCCGGCGCTCCAAGCTCAAGGTGGGTGGCTGCGCTGGGTATGCTGACCCC
ACCTCCCAGCACCCCCTTGGCGTAGGGGGCAGGCAGAGGGAGGGTTTGGGGCCCTCAGGA
AGGGGGTGGCACTTCTGCCAACAGTCTGTCCCTCTACTCGGAAAACAGGAGCCCCCTTTC
TTCCTGTCTCTCAGCTTCTGCTGCCAGGGGCCCCAGCCGGCTGAGAGTTCCTCCCCGCCC
CTCCCAGGGGCTTCCTGCTTCAGCCTGTCCTGCACGCCTCTCTGCTGGGTGGCAGGGTCA
AACTGCTGCAGACAAGCACTCTTCCCTCCCAGGGGGTCCTTGGGGGACGGAAAGGAACAG
GAAGCATGCGTACAGTAGGTGCTCATAGGATTGCCGGCTGGATGTGACTCAAAAGCCTAA
GATTTGGGGGCTACTCCGGGCCCACCTGCGGGTGCACCTTAAATCGAGGTGGCCACGAAA
GGCAGGGCTGACTGAATAGCCAGGGGGTGCCAGGAGGGGCCTTGGAGGAGGGCAGAGGCA
GTGTGGGCTGATGATGTGCTTTGGCCTTCTCGGGACTGTCCTGTCACCCCTCCTCGCTAC
AGTGATGGGCTCACCCCGCCACAGGTATGCATGCGCCCCTGGGGTCCGTGGTAGGGCCCC
TCCCTCCCCTGAGGACAGGTGAGGCAGGACAGGATGGGGGAGGAGGGCCTGGCCTCAGTC
CCGGGTGTGGCTTTGATTCCCTCCTCCGGGCACTGTCCCTGATACAAAAAAAAAAAAAAA
AAAAAAGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAC

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5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_032647 unedited
NGGAAGCGTCAAAATTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGACT
GGCGGCGGGCGCCGCGGTCGGGCTGGCTGCCGGGCAGCATGGAGGAGCTGAGCAGCGTGG
GCGAGCAGGTCTTCGCCGCCGAGTGCATCCTGAGCAAGCGGCTCCGCAAGGGCAAGCTGG
AGTACCTGGTCAAGTGGCGCGGCTGGTCCTCCAAACATAACAGCTGGGAGCCGGAGGAGA
ACATCCTGGACCCGAGGCTGCTCCTGGCCTTCCAGAAGAAGGAACATGAGAAGGAGGTGC
AGAACCGGAAGAGAGGCAAGAGGCCGAGAGGCCGGCCAAGGAAGCTCACTGCCATGTCCT
CCTGCAGCCGGCGCTCCAAGCTCAAGGTGGGTGGCTGCGCTGGGTATGCTGACCCCACCT
CCCAGCACCCCCTTGGCGTAGGGGGCAGGCAGAGGGAGGGTTTGGGGCCCTCAGGAAGGG
GGTGGCACTTCTGCCAACAGTCTGTCCCTCTACTCGGAAAACAGGAGCCCCCTTTCTTCC
TGTCTCTCAGCTTCTGCTGCCAGGGGCCCCAGCCGGCTGAGAGTTCCTCCCCGCCCCTCC
CGGGGCTTCCTGCTTCAGCCTGTCCTGCACGCCTCTCTGCTGGGTGGCAGGGTCAAACTG
CTGCAGACAAGCACTCTTCCCTCCCAGGGGGTCCTTGGGGGACGGAAAGGAACAGGAAGC
ATGCGTACAGTAGGTGCTCATAGGATTGCCGGCTGGATGTGACTCANAAGCCTAAGATTT
GGGGGCTACTCCGGGCCCACCTGCGGGTGCACCTTANATCGAGGTGGCCACGAAAGGCAG
GGCTGACTGAATAGCCAGGGGGTGCCAGGAGGGGCCTTGGAGGAAGGCAGAGCAGTGTGG
CCT
```

Restriction Sites: Please inquire

ACCN: NM_032647

Insert Size: 1131 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.

RefSeq: NM_032647.2, NP_116036.1

RefSeq Size: 1061 bp

RefSeq ORF: 636 bp

Locus ID: 84733

UniProt ID: Q14781

Cytogenetics: 17q25.3

Protein Families: Transcription Factors

Gene Summary: This gene encodes a component of the polycomb multiprotein complex, which is required to maintain the transcriptionally repressive state of many genes throughout development via chromatin remodeling and modification of histones. Disruption of this gene in mice results in male-to-female gonadal sex reversal. Mutations in this gene are also associated with gonadal dysgenesis in humans. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.[provided by RefSeq, Mar 2010]
Transcript Variant: This variant (2) lacks a 3' exon compared to variant 1, resulting in an alternate 3' coding region and UTR. It encodes a shorter isoform (2) with an unique C-terminus compared to isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.