

Product datasheet for **MG218478**

Cdadc1 (NM_001168536) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cdadc1 (NM_001168536) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cdadc1
Synonyms:	2310010M10Rik; AI449174; AI463398; BB130816; NYD-SP15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218478 representing NM_001168536
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAAGAAACGGATCAGATGCAGAGTTTGGAGGTTCCGGGGCCGAGAGGTCAGTCGGCACGCAGACGG
 GCAGCATGACGGTCAAATACCAAGGCTTCTAAAGTGAACCTTTTCACCTGCTCAGTCTCTGGATGGA
 GCTCTTCCAGGAGTGAAGCCCAAGGGCAAAAATCTCAGAAAACCTGAAGAGGAAAGCCGTGGTCCCTTA
 GGAGACAATGAAGAGTTGACCAGAGTGTCTACTGAAAAAACAGGTGAAGAAAACCTGGTCTTGTGGTGG
 TGAAAAACATGAAGATCATTGGTCTTCACTGCTCCAGTGAAGACTTACATACTGGGCAAATTGCTCTCAT
 TAAGCATGGGTCCAGGCTGAAAACCTGTGATCTTTATTTTTCAAGAAAACCATGTTCTGCTTGTGTTGAAA
 ATGATAGTGAATGCTGGAGTTAACCGAATTTCTACTGGCCTTCTGACCCAGAAAATAAGTTTGCTCACTG
 AAGCTTCTAGTTCTGAAGATGCAAAGCTAGATGCCAAAGCCGAGAAAAGATTGAAGTCAAACAGCCGGGC
 CCATGTGTGTCTTACTCCAGCCGTTGGTGTGTACATGGTGCAGTTTGTGGAGGAAACCTTTACAAA
 TGTGACTTTATTAGAAAACCTGAAAAGCGTTGCCGGGTGCTGACTGATTTTTATTCTGAATGTAAC
 AAGAAAAGATAAAGAGTATGAAATGTTATTTTTGGTTTCAAATGAAGAAAGGCATAAGCAGATACTGAT
 GACTATAGGTCTGGAGAGCCTGTGTGAAGACCCCTATTTTAGCAATCTAAGGCAAAAACATGAAAGACCTG
 ATTCTACTTTTGGCCACAGTAGCTTCTAGTGTGCCCAACTTGAACACTTCGGATTCTACTGTAGCAGCC
 CAGAGCAGATTAATGAAATTCACAATCAGAGTTTCCACAGGAAGTTGCAAGGCATTGCATGGTGCAGGC
 CAGGTTATTGGCATAATCGAAGTGGGACTGGAGCCATGACTTCATAGGTTGCCGGTACAATGCCTTTCCCGTGGCT
 CTGAGTATGCCGACTTCCCGACATGGATGACAAGCATAAGGACAGAGAAAATACGGAAGTTCCAGATCAT
 CATACATGCGGAGCAGAACGCTTTGACATTTAGATGTCAGATATAAAACAGAAAGCAAGCAGCATGATT
 TTTGTGACAAAATGCCCTGTGATGAATGTGTGCTTTAATTAAGGTGCAGGCATAAAGCAGATCTATG
 CTGGTGACGTAGATGTTGGAAAGAAGAAAGCAGACATCTCGTACATGAAGTTTGGGGAGCTTGAGGGTGT
 TCGCAAATTCACATGGCAGTTGAATCCGTCTGAAGCTTATAGTCTTGACCCAAATGAGCCTGAAAGGAGA
 GAAAAGCATCTGTCCATCAAAGATCCCAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218478 representing NM_001168536
 Red=Cloning site Green=Tags(s)

MKETDQMSLEGSGAERSVGTQTSMTGQIPRLSKVNLFTLLSLWMELFPGVEAQGQKSQKTEEESRGPL
 GDNEELTRVSTEEKQVKKTGLVVVKNMKIIGLHCSSDLHTGQIALIKHGSRLKNCPLYFSRKPCSACKL
 MIVNAGVNRISYWPSDPEISLLTEASSSEDAKLDAKAAERLKSNSRAHVCVLLQPLVCYMQFVEETSQK
 CDFIQKTAKALPGADDFYSECKQERIKIYEMLFLVSNEERHKQILMTIGLESLEDYPFYNLRQNMKDL
 ILLLATVASSVPLKHFYFCSPEQINEIHNQSLPQEVARHCMVQARLLAYRTEDHKTGVGAVIWAQAK
 SRSCDGTGAMYFVIGCGYNAFPVGSEYADFPHMDDKHKDREIRKFRYIIHAEQNALTFRCQDIKPEERSMI
 FVTKPCDECVPLIKGAGIKQIYAGDQVGVGKKKADISYMKFGELEGVKFTWQLNPSEAYSLDPNEPERR
 EKHLSIKRSH

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Kozac
Consensus

EcoR I BamH I Kpn I RBS Sgf I Asc I

CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

Hind III Nhe I Rsr II Mlu I Not I Xho I GFP Tag

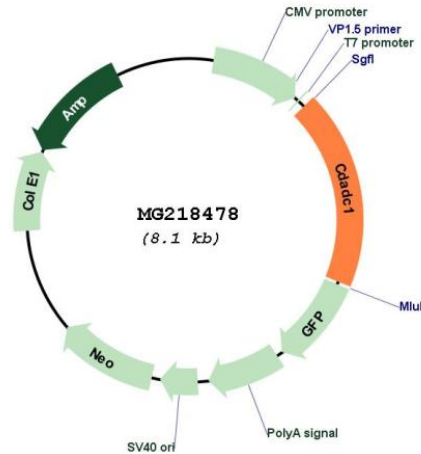
CAAGCTTAACTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

T R T R P L E M E S D - - -

Pme I Fse I

--- --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT

- - - E E R V Stop

Plasmid Map:


ACCN:	NM_001168536
ORF Size:	1500 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_001168536.1](#), [NP_001162008.1](#)

RefSeq Size: 1907 bp

RefSeq ORF: 1503 bp

Locus ID: 71891

UniProt ID: [Q8BMD5](#)

Cytogenetics: 14 C3

Gene Summary: May play an important role in testicular development and spermatogenesis.
[UniProtKB/Swiss-Prot Function]