

Product datasheet for **RG216735**

CDCA7 (NM_031942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	CDCA7
Synonyms:	ICF3; JPO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216735 representing NM_031942
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGACGCTCGCCGCTGCCGAGAAAGATCTCAGAGTAAAGAAGAACTTAAAGAAATTCAGATATGTGA
 AGTTGATTTCCATGGAAACCTCGTCATCCTCTGATGACAGTTGTGACAGCTTTGCTTCTGATAATTTTGC
 AAACACGAAACCTAAATTCAGGTGAGATATCAGTGAAGAACTGGCAATGTTTTTATGAGGACTCTGAT
 AATGAATCTTTCTGCGGCTTTTCAGAAAGTGAGGTGCAAGATGTATTAGACCATTGTGGATTTTACAGA
 AACCAAGGCCAGATGTCACTAACGAACTGGCCGGTATTTTTCATGCCGACTCTGACGATGAATCATTTTG
 CGGTTTTCTCAGAGAGTGAGATACAAGATGGAATGAGGCTGCAGTCAGTTCCGGAAGGCTGTAGGACCCGC
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 CCAACAAAAAGCAGAGTCCCGCCAGCCCTCAGAGAATTCTGTGACTGATTCCAACCTCCGATTGAGAAGA
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 TCCTCTTACCAGGTCAAGGTCCCGGATCCTCGGTCCCTTGACGCTCTACCCATGGAGGAGGAGGAGAA
 GAGGATAAGTACATGTTGGTGAGAAAGAGGAAGACCGTGGATGGCTACATGAATGAAGATGACCTGCCCA
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 GGAGTTGGAGAACGTCTGCAGCAATTCTCAGAGAAAGATATATAACCGTTCACTGGGCTCTACTTGTCTAT
 CAATGCCGTCAGAAGACTATTGATACAAAACAACTGCAGAAACCCAGACTGCTGGGGCTTCGAGGCC
 AGTTCTGTGGCCCTGCCTTCGAAACCGTTATGGTGAAGAGGTGAGGGATGCTCTGCTGGATCCGAAGTG
 GCATTGCCCGCTTGTGAGGAATCTGCAACTGCAGTTTCTGCCGCGAGCGAGATGGACGGTGTGCGACT
 GGGGTCTTGTGATTTAGCCAAATATCATGGCTTTGGGAATGTGCATGCCTACTTGAAGCCTGAAAC
 AGGAATTTGAAATGCAAGCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

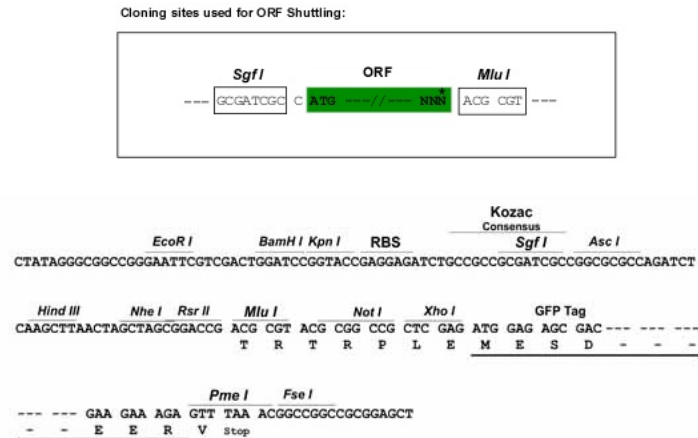
Protein Sequence: >RG216735 representing NM_031942
 Red=Cloning site Green=Tags(s)

MDARRVPQKDLRVKKNLKKFRYVKLISMETSSSSDDSCDSFASDNFANTKPKFRSDISEELANVFYEDSD
 NESFCGFSESEVQDVLHCGFLQKPRPDVTNELAGIFHADSDDSFSGFSESEIQDGMRLQSVREGCRTR
 SQCRHSGPLRVAMKFPARSTRGATNKKAESRQPSSENSVTDSNSDSEDESGMNFLEKRALNIKQNKAMLAK
 LMSELESFPGSFRGRHPLPGSDSQSRRPRRRTFPGVASRRNPERRARPLTRSRSRILGSLDALPMEEEEE
 EDKMYLVRKRKTVDGYMNEDDLPRSRSSSVTLPHIIRPVVEITEEELENVCSNSREKIYNRSLGSTCH
 QCRQKTIDTKNCRNPDCWVGVRGQFCGPCLRNRYGEEVRDALLDPNWHCPPCRGICNCSFCRQRDGRCAT
 GVLVYLAKYHGFGNVHAYLKSLLQEFEMQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031942

ORF Size: 1350 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.

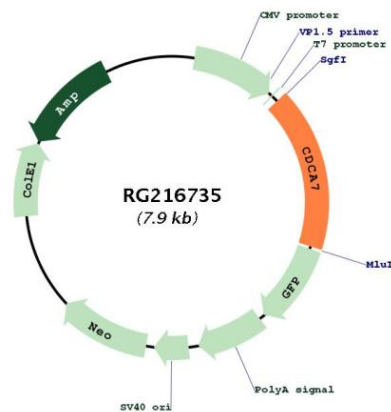
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_031942.5](#)

RefSeq Size: 2839 bp
 RefSeq ORF: 1353 bp
 Locus ID: 83879
 UniProt ID: [Q9BWT1](#)
 Cytogenetics: 2q31.1

Gene Summary: This gene was identified as a c-Myc responsive gene, and behaves as a direct c-Myc target gene. Overexpression of this gene is found to enhance the transformation of lymphoblastoid cells, and it complements a transformation-defective Myc Box II mutant, suggesting its involvement in c-Myc-mediated cell transformation. Two alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG216735