

## **Product datasheet for RC202050**

## RAIDD (CRADD) (NM 003805) Human Tagged ORF Clone

**Product data:** 

**Product Type:** Expression Plasmids

Product Name: RAIDD (CRADD) (NM\_003805) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: RAIDD

Synonyms: MRT34; RAIDD

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC202050 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGGCCAGAGACAAACAAGTACTCCGCTCACTTCGCCTGGAGCTGGGTGCAGAGGTATTGGTGGAGG
GACTGGTTCTTCAGTACCTCTACCAGGAAGGAATCTTGACGGAAAACCATATTCAAGAAATCAATGCTCA
AACCACAGGCCTCCGGAAAACAATGCTCCTGCTGGATATCCTACCTTCCAGGGGCCCTAAAGCATTTGAT
ACATTCCTAGATTCCCTACAGGAGTTTCCCTGGGTCAGGGAGAAGCTGAAGAAGGCAAGGGAAGAGGCCA
TGACCGACCTGCCTGCAGGTGACAGATTGACTGGGATCCCCTCGCACATCCTCAACAGCTCCCCATCAGA
CCGGCAGATTAACCAGCTGGCCCAGAGGCTGGGCCCTGAGTGGGAGCCCATGGTGCTGTCTCTGGGACTG
TCCCAGACGGATATCTACCGCTGTAAGGCCAACCACCCCCACAACGTGCAGTCGCAGGTGGTGGAGGCCT
TCATCCGTTGGCGGCAGCGCTTCCGGGAAGCAGCCCACCTTCCAGAGCCTGCACAACCGGGCTGCGGGCTGT

GGAGGTGGACCCCTCGCTGCTCCTGCACATGTTGGAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC202050 protein sequence

Red=Cloning site Green=Tags(s)

MEARDKQVLRSLRLELGAEVLVEGLVLQYLYQEGILTENHIQEINAQTTGLRKTMLLLDILPSRGPKAFD TFLDSLQEFPWVREKLKKAREEAMTDLPAGDRLTGIPSHILNSSPSDRQINQLAQRLGPEWEPMVLSLGL

 ${\tt SQTDIYRCKANHPHNVQSQVVEAFIRWRQRFGKQATFQSLHNGLRAVEVDPSLLLHMLE}$ 

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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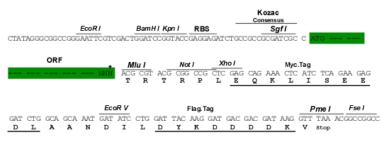
Chromatograms: <a href="https://cdn.origene.com/chromatograms/mk6011">https://cdn.origene.com/chromatograms/mk6011</a> f11.zip

Restriction Sites:

Sgfl-Mlul

**Cloning Scheme:** 





<sup>\*</sup> The last codon before the Stop codon of the ORF

**ACCN:** NM\_003805

ORF Size: 597 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 003805.5

RefSeq Size: 1201 bp
RefSeq ORF: 600 bp
Locus ID: 8738



 UniProt ID:
 P78560

 Cytogenetics:
 12q22

**Domains:** DEATH, CARD

**Protein Families:** Druggable Genome

MW: 22.7 kDa

**Gene Summary:** This gene encodes a protein containing a death domain (DD) motif. This protein recruits

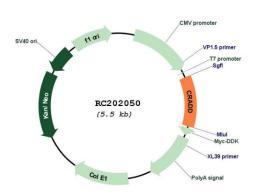
caspase 2/ICH1 to the cell death signal transduction complex, which includes tumor necrosis

factor receptor 1 (TNFR1A) and RIPK1/RIP kinase, and acts in promoting apoptosis. A

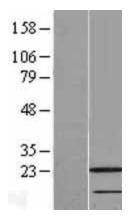
mutation in this gene was associated with cognitive disability. A related pseudogene is found on chromosome 3. Alternative splicing results in multiple transcript variants. [provided by

RefSeq, Feb 2016]

## **Product images:**

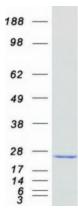


Circular map for RC202050



Western blot validation of overexpression lysate (Cat# [LY401252]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202050 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified CRADD protein (Cat# [TP302050]). The protein was produced from HEK293T cells transfected with CRADD cDNA clone (Cat# RC202050) using MegaTran 2.0 (Cat# [TT210002]).