

Product datasheet for **RC206239**

ECRG4 (NM_032411) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ECRG4 (NM_032411) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: ECRG4
Synonyms: C2orf40
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC206239 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGCCTCCCCGCGCGCCTGCTGTCTGGCCCTGACCGGGCTGGCGCTGCTCCTGCTCCTGTGCT
GGGGCCAGGTGGCATAAGTGAAATAAACAAGCTGATGCTTCAAAAACGAGAAGCACCTGTTCCAAC
TAAGACTAAAGTGGCCGTTGATGAGAATAAAGCCAAGAATTCCCTGGCAGCCTGAAGCGCCAGAAGCGG
CAGCTGTGGGACCGGACTCGGCCGAGGTGCAGCAGTGGTACCAGCAGTTTCTCTACATGGGCTTTGACG
AAGCGAAATTTGAAGATGACATCACCTATTGGCTTAACAGAGATCGAAATGGACATGAATACTATGGCGA
TTACTACCAACGTCACTATGATGAAGACTCTGCAATTGGTCCCCGGAGCCCTACGGCTTTAGGCATGGA
GCCAGCGTCAACTACGATGACTAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC206239 protein sequence
Red=Cloning site Green=Tags(s)

MAASPARPAVLALTGLALLLLCWGPGGISGNKLLMLQKREAPVPTKTKVAVDENKAKEFLGSLKRQKR
QLWDRTRPEVQQWYQQFLYMGFDEAKFEDDITYWLNDRNGHEYGYDYQRHYDEDSAIGPRSPYGRFHG
ASVNYDDY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6030_h06.zip

Restriction Sites: SgfI-MluI

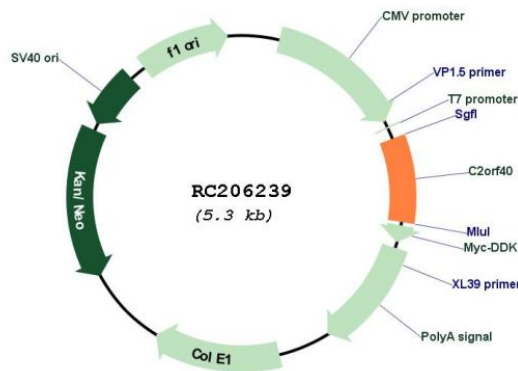


[View online >](#)

Cloning Scheme:



Plasmid Map:



ACCN: NM_032411

ORF Size: 444 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_032411.3](#)

RefSeq Size: 793 bp

RefSeq ORF: 447 bp

Locus ID: 84417

UniProt ID: [Q9H1Z8](#)

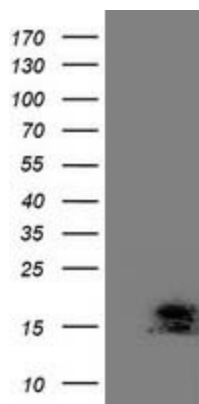
Cytogenetics: 2q12.2

Protein Families: Secreted Protein, Transmembrane

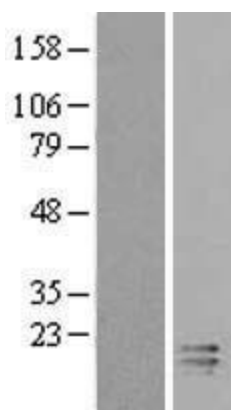
MW: 17.2 kDa

Gene Summary: Probable hormone that may attenuate cell proliferation and induce senescence of oligodendrocyte and neural precursor cells in the central nervous system (By similarity). ECRG4-induced senescence is characterized by G1 arrest, RB1 dephosphorylation and accelerated CCND1 and CCND3 proteasomal degradation (By similarity).[UniProtKB/Swiss-Prot Function]

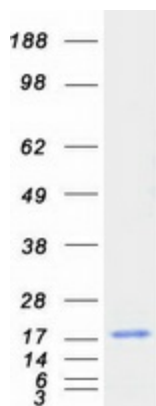
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY C2orf40 (Cat# RC206239, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-C2orf40 (Cat# [TA502699]). Positive lysates [LY403168] (100ug) and [LC403168] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY403168]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC206239 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ECRG4 protein (Cat# [TP306239]). The protein was produced from HEK293T cells transfected with ECRG4 cDNA clone (Cat# RC206239) using MegaTran 2.0 (Cat# [TT210002]).