

Product datasheet for **RN215904**

RGD1305645 (NM_001271051) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RGD1305645 (NM_001271051) Rat Untagged Clone
Tag:	Tag Free
Symbol:	RGD1305645
Synonyms:	Ecrg4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215904 representing NM_001271051 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCACCTCCTCTGCTCGGCCTGCAGTCCTGGCCCTAGCTGGGCTCGCGCTGCTCCTTCTGCTGTGTC
TGGGTCCAGGTGACGTAAGTGGAACAACTCAAGAAGATGCTTCAGAAACGAGAAGGACCTGTTCCATC
AAAGACGAACGTAGCTGTTTCTGAGCACACAGCAAAGGAATTCCTAGGTGGCCTGAAGCGTGCCAAACGA
CAGCTGTGGGACCGTACACGACCTGAGGTACAGCAGTGGTACCAGCAGTTCCTGTACATGGGCTTCGATG
AGGCGAAATTTGAAGATGATGTCAACTATTGGCTAAACAGAAACCAAAATGGCCATGACTACTATGGTGA
CTACTACCAGCGTCACTATGATGAAGATGCGGCCATTGGTCCCCGCAGCCGGAAGGCTTTAGGCACGGA
GCCAGTGTCAACTATGATGACTAT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001271051
Insert Size:	447 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).


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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001271051.1, NP_001257980.1</u>
RefSeq Size:	906 bp
RefSeq ORF:	447 bp
Locus ID:	363225
UniProt ID:	<u>D4A540</u>
Cytogenetics:	9q22
Gene Summary:	Probable hormone that may attenuate cell proliferation and induce senescence of oligodendrocyte and neural precursor cells in the central nervous system (PubMed:20404145, PubMed:21349154). ECRG4-induced senescence is characterized by G1 arrest, RB1 dephosphorylation and accelerated CCND1 and CCND3 proteasomal degradation (PubMed:20404145).[UniProtKB/Swiss-Prot Function]