

Product datasheet for RC203227

Density Regulated Protein (DENR) (NM_003677) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Density Regulated Protein (DENR) (NM_003677) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: Density Regulated Protein
Synonyms: DRP; DRP1; SMAP-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC203227 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGGATCGCC

ATGGCTGCTGACATTTCTGAATCCAGCGGGGCTGACTGCAAAGGAGACCAAGGAACAGTGCCAAGTTAG
 ATGCCGATTACCCACTTCGAGTCCTTTATTGTGGAGTCTGTTCAATACCAACAGAGTACTGTGAATATAT
 GCCTGATGTTGCTAAATGTAGACAATGGTTAGAGAAGAATTTCCAAATGAATTTGCAAACTTACTGTA
 GAAAATTCACCCAAACAAGAAGCTGGAATTAGTGAGGGTCAAGGAACAGCAGGGGAAGAAGAGGAGAAGA
 AAAACAGAAGAGAGGTGGAAGGGTCAAATAAAACAAAAAAGAAGACCGTACCACAAAAGGTTACTAT
 AGCCAAAATCCCAGAGCAAAGAAGAAATATGTGACAAGAGTATGTGGCCTTGCAACTTTTGAAATTGAT
 CTTAAAGAAGCACAAGATTTTTGCTCAAAAATCTCCTGTGGTGCCTCAGTAACAGGGGAGGATGAAA
 TTATCATTAGGGAGATTTTACAGATGACATAATTGATGTCATTAGGAAAAATGGCCAGAGGTAGATGA
 TGACAGCATCGAAGATCTTGGAGAAGTAAAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203227 protein sequence
 Red=Cloning site Green=Tags(s)

MAADISESSGADCKGDPRNSAKLDADYPLRVL YGVC SLPT EYCEYMPD VAKCRQWLEKNFPNEFAKLT V
 ENSPKQEAGI SEGQGTAGEEEEEKKKQKRGRGQIKQKKKTV PQKVTIAKIPRAKKKYVTRVCGLATFEID
 LKEAQRFFAQKFSCGASVTGEDEIIIQGDFD DDIIDVIQEKWPEVDDDSIEDLGEVVK

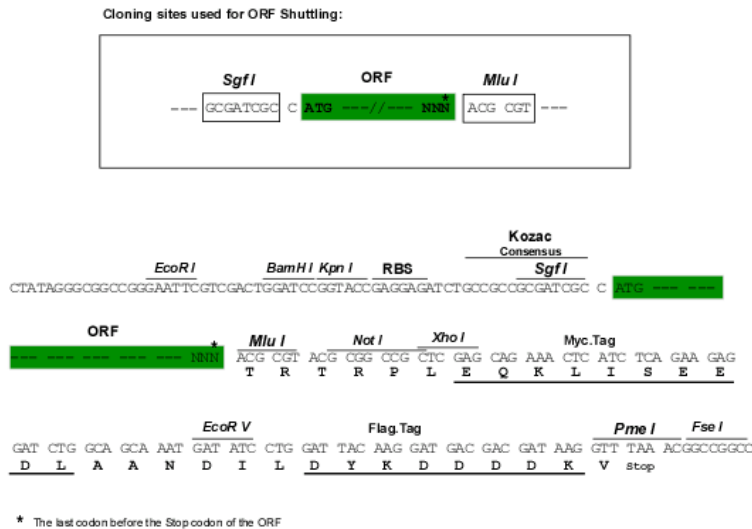
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk6412_e09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_003677

ORF Size: 594 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.

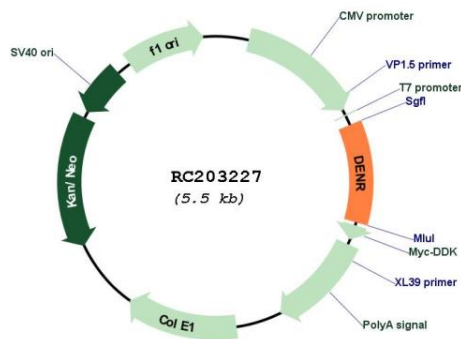
RefSeq: [NM_003677.5](#)

RefSeq Size: 3061 bp

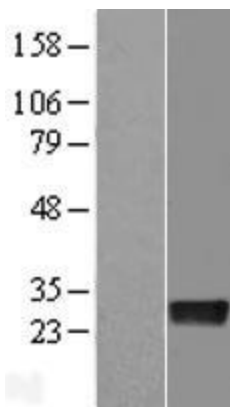
RefSeq ORF: 597 bp
 Locus ID: 8562
 UniProt ID: [O43583](#)
 Cytogenetics: 12q24.31
 MW: 22.1 kDa

Gene Summary: This gene encodes a protein whose expression was found to increase in cultured cells at high density but not during growth arrest. This gene was also shown to have increased expression in cells overexpressing HER-2/neu proto-oncogene. The protein contains an SUI1 domain. In budding yeast, SUI1 is a translation initiation factor that along with eIF-2 and the initiator tRNA-Met, directs the ribosome to the proper translation start site. Proteins similar to SUI1 have been found in mammals, insects, and plants. [provided by RefSeq, Jul 2008]

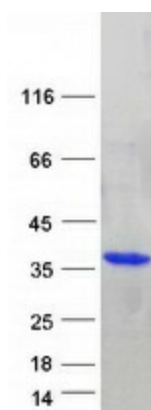
Product images:



Circular map for RC203227



Western blot validation of overexpression lysate (Cat# [LY418507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203227 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified DENR protein (Cat# [TP303227]). The protein was produced from HEK293T cells transfected with DENR cDNA clone (Cat# RC203227) using MegaTran 2.0 (Cat# [TT210002]).