

Product datasheet for **RG203227**

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: TurboGFP
Symbol: Density Regulated Protein
Synonyms: DRP; DRP1; SMAP-3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG203227 representing NM_003677
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCTGACATTTCTGAATCCAGCGGGGCTGACTGCAAAGGAGACCAAGGAACAGTGCCAAGTTAG
 ATGCCGATTACCACTTCGAGTCCTTTATTGTGGAGTCTGTTCAATACCAACAGAGTACTGTGAATATAT
 GCCTGATGTTGCTAAATGTAGACAATGGTTAGAGAAGAATTTCCAAATGAATTTGCAAACTTACTGTA
 GAAAATTCACCCAAACAAGAAGCTGGAATTAGTGAGGGTCAAGGAACAGCAGGGGAAGAAGAGGAGAAGA
 AAAACAGAAGAGAGGTGGAAGGGTCAAATAAAACAAAAAAGAAGACCGTACCACAAAAGTTACTAT
 AGCCAAAATCCAGAGCAAAGAAGAAATATGTGACAAGAGTATGTGGCCTTGCAACTTTTGAAATGAT
 CTTAAAGAAGCACAAGATTTTTGCTCAAAAATTCCTCTGTGGTGCCTCAGTAACAGGGGAGGATGAAA
 TTATCATTAGGGAGATTTTACAGATGACATAATTGATGTCATTAGGAAAAATGGCCAGAGGTAGATGA
 TGACAGCATCGAAGATCTTGGAGAAGTAAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG203227 representing NM_003677
 Red=Cloning site Green=Tags(s)

MAADISESSGADCKGDPRNSAKLDADYPLRVL YGVC SLPT EYCEYMPDVAKCRQWLEKNFPNEFAKLTV
 ENSPKQEAGISEGQGTAGEEEEEKKKQKRGRGQIKQKKTV P QKVTIAKIPRAKKKYVTRVCGLATFEID
 LKEAQRFFAQKFSCGASVTGEDEIIIQGDFDDIIDVIQEKWPEVDDSDIEDLGEVKK

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-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.

RefSeq: [NM_003677.5](#)

RefSeq Size: 3061 bp

RefSeq ORF: 597 bp

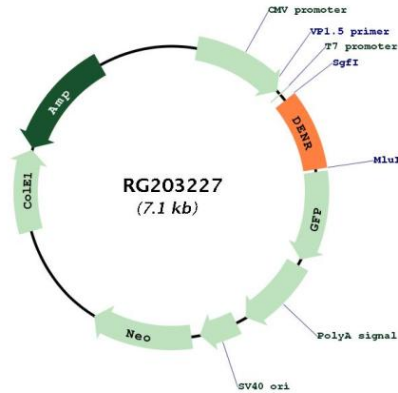
Locus ID: 8562

UniProt ID: [O43583](#)

Cytogenetics: 12q24.31

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 SUI have been found in mammals, insects, and plants. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG203227