

Product datasheet for RC227954L3

OriGene Technologies, Inc.

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CD133 (PROM1) (NM_001145852) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: CD133 (PROM1) (NM_001145852) Human Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: CD133

Synonyms: AC133; CD133; CORD12; MCDR2; MSTP061; PROML1; RP41; STGD4

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone

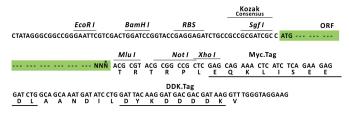
Sequence:

The ORF insert of this clone is exactly the same as(RC227954).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001145852

ORF Size: 2475 bp





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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.

4p15.32

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 001145852.1</u>

 RefSeq ORF:
 2478 bp

 Locus ID:
 8842

 UniProt ID:
 043490

Cytogenetics:

Protein Families: Druggable Genome, ES Cell Differentiation/IPS, Transmembrane

MW: 92.6 kDa

Gene Summary: This gene encodes a pentaspan transmembrane glycoprotein. The protein localizes to

membrane protrusions and is often expressed on adult stem cells, where it is thought to function in maintaining stem cell properties by suppressing differentiation. Mutations in this gene have been shown to result in retinitis pigmentosa and Stargardt disease. Expression of this gene is also associated with several types of cancer. This gene is expressed from at least five alternative promoters that are expressed in a tissue-dependent manner. Multiple

transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, Mar 2009]