

Product datasheet for RC200725L1V

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Superoxide Dismutase 1 (SOD1) (NM 000454) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type: Lentiviral Particles

Product Name: Superoxide Dismutase 1 (SOD1) (NM_000454) Human Tagged ORF Clone Lentiviral Particle

Symbol: Superoxide Dismutase 1

Synonyms: ALS; ALS1; HEL-S-44; homodimer; hSod1; IPOA; SOD; STAHP

Mammalian Cell

Selection:

None

Vector: pLenti-C-Myc-DDK (PS100064)

Tag: Myc-DDK
ACCN: NM 000454

ORF Size: 462 bp

ORF Nucleotide

Sequence:

The ORF insert of this clone is exactly the same as(RC200725).

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.

RefSeq: <u>NM 000454.4</u>

 RefSeq Size:
 981 bp

 RefSeq ORF:
 465 bp

 Locus ID:
 6647

 UniProt ID:
 P00441

 Cytogenetics:
 21q22.11

 Domains:
 sodcu

Protein Families: Druggable Genome





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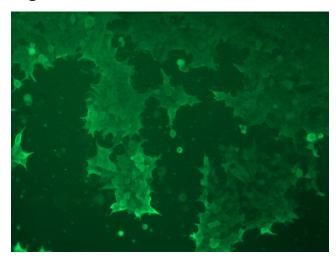
Protein Pathways: Amyotrophic lateral sclerosis (ALS), Huntington's disease, Prion diseases

MW: 15.9 kDa

Gene Summary: The protein encoded by this gene binds copper and zinc ions and is one of two isozymes

responsible for destroying free superoxide radicals in the body. The encoded isozyme is a soluble cytoplasmic protein, acting as a homodimer to convert naturally-occuring but harmful superoxide radicals to molecular oxygen and hydrogen peroxide. The other isozyme is a mitochondrial protein. In addition, this protein contains an antimicrobial peptide that displays antibacterial, antifungal, and anti-MRSA activity against E. coli, E. faecalis, S. aureus, S. aureus MRSA LPV+, S. agalactiae, and yeast C. krusei. Mutations in this gene have been implicated as causes of familial amyotrophic lateral sclerosis. Rare transcript variants have been reported for this gene. [provided by RefSeq, Jul 2020]

Product images:



[RC200725L1] was used to prepare Lentiviral particles using [TR30037] packaging kit. HEK293T cells were transduced with RC200725L1V particle to overexpress human SOD1-Myc-DDK fusion protein.