

## Product datasheet for **RC215448L4V**

### ALS2 (NM\_020919) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	ALS2 (NM_020919) Human Tagged ORF Clone Lentiviral Particle
Symbol:	ALS2
Synonyms:	ALS2CR6; ALSJ; IAHSP; PLSJ
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_020919
ORF Size:	4971 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215448).
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. <a href="#">More info</a>
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:	<a href="#">NM_020919.2</a>
RefSeq Size:	6470 bp
RefSeq ORF:	4974 bp
Locus ID:	57679
UniProt ID:	<a href="#">Q96Q42</a>
Cytogenetics:	2q33.1
Domains:	RCC1, VPS9, MORN
Protein Families:	Druggable Genome



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**Protein Pathways:** Amyotrophic lateral sclerosis (ALS)

**MW:** 183.5 kDa

**Gene Summary:** The protein encoded by this gene contains an ATS1/RCC1-like domain, a RhoGEF domain, and a vacuolar protein sorting 9 (VPS9) domain, all of which are guanine-nucleotide exchange factors that activate members of the Ras superfamily of GTPases. The protein functions as a guanine nucleotide exchange factor for the small GTPase RAB5. The protein localizes with RAB5 on early endosomal compartments, and functions as a modulator for endosomal dynamics. Mutations in this gene result in several forms of juvenile lateral sclerosis and infantile-onset ascending spastic paralysis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2008]