

## Product datasheet for **RC215158L2V**

### EGLN1 (NM\_022051) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	EGLN1 (NM_022051) Human Tagged ORF Clone Lentiviral Particle
Symbol:	EGLN1
Synonyms:	C1orf12; ECTY3; HALAH; HIF-PH2; HIFPH2; HPH-2; HPH2; PHD2; SM20; ZMYND6
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_022051
ORF Size:	1278 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC215158).
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_022051.1</a>
RefSeq Size:	7102 bp
RefSeq ORF:	1281 bp
Locus ID:	54583
UniProt ID:	<a href="#">Q9GZT9</a>
Cytogenetics:	1q42.2
Domains:	zf-MYND, 2OG-FelI_Oxy, P4Hc
Protein Pathways:	Pathways in cancer, Renal cell carcinoma



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**MW:** 46.5 kDa

**Gene Summary:** The protein encoded by this gene catalyzes the post-translational formation of 4-hydroxyproline in hypoxia-inducible factor (HIF) alpha proteins. HIF is a transcriptional complex that plays a central role in mammalian oxygen homeostasis. This protein functions as a cellular oxygen sensor, and under normal oxygen concentration, modification by prolyl hydroxylation is a key regulatory event that targets HIF subunits for proteasomal destruction via the von Hippel-Lindau ubiquitylation complex. Mutations in this gene are associated with erythrocytosis familial type 3 (ECYT3). [provided by RefSeq, Nov 2009]