

# Product datasheet for MR220572L4

# Rgr (NM\_021340) Mouse Tagged Lenti ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Pla	smids				
Product Name:	Rgr (NM_021340) Mouse Tagged Lenti ORF Clone					
Tag:	mGFP					
Symbol:	Rgr					
Mammalian Cell Selection:	Puromycin					
Vector:	pLenti-C-mGFF	P-P2A-P	uro (PS10	0093)		
E. coli Selection:	Chloramphenicol (34 ug/mL)					
ORF Nucleotide Sequence:	The ORF inser	t of th	is clone	is exac	tly the sa	ame as(MR220572).
<b>Restriction Sites:</b>	Sgfl-Mlul					
Cloning Scheme:			ses used for ORF Sh Sgf I GCG ATC GC ATG	ORF		
		EcoR I	BamHl	RBS	Kozak Consensus Sgf I	ORF
	CTATAGGGCGGCCG	GGGAATTCGTC	GACTGGATCCGGTA	CCGAGGAGATCI	GCCGCCGCGATCGC	C ATG

 Mlui
 Noti
 Xhoi
 mGFP Tag

 ...
 ...
 ...
 NNN
 ACG CGT ACG CGG CCG CTC GAG ATG AGC GGG GGC ...

 T
 R
 T
 R
 P
 L
 E
 M
 S
 G



\* The last codon before the Stop codon of the ORF.

ACCN: ORF Size: NM\_021340 876 bp

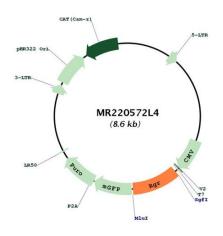


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	r (NM_021340) Mouse Tagged Lenti ORF Clone – MR220572L4
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <u>custsupport@origene.com</u> or by calling 301.340.3188 option 3 for pricing and delivery.
	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. <u>More info</u>
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 Meth	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	NM 021340.3
RefSeq Size:	4307 bp
RefSeq ORF:	876 bp
Locus ID:	57811
UniProt ID:	<u>Q9Z2B3</u>
Cytogenetics:	14 B
Gene Summary:	The gene is a member of the opsin family of G-protein coupled receptors. The encoded protein is expressed in the retina, and acts as a photoisomerase to catalyze the conversion of all-trans-retinal to 11-cis-retinal. Disruption of a similar gene in human is associated with autosomal recessive (arRP) and autosomal dominant retinitis pigmentosa (adRP). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2014]

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# **Product images:**



Circular map for MR220572L4

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