

## Product datasheet for MR211970L3

### Akna (NM\_001045514) Mouse Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Akna (NM_001045514) Mouse Tagged Lenti ORF Clone
Tag:	Myc-DDK
Symbol:	Akna
Synonyms:	AI597013
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-Myc-DDK-P2A-Puro (PS100092)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211970).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



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

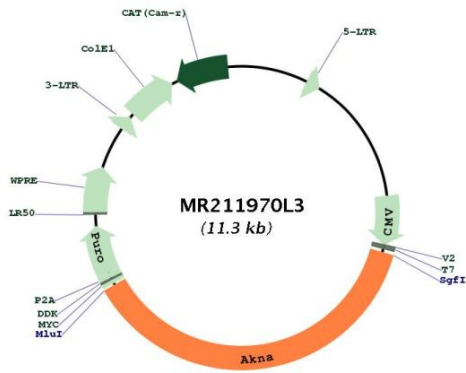
ACCN:	NM_001045514
ORF Size:	4215 bp



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<b>OTI Disclaimer:</b>	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>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001045514.1</a> , <a href="#">NP_001038979.1</a>
<b>RefSeq Size:</b>	5513 bp
<b>RefSeq ORF:</b>	4215 bp
<b>Locus ID:</b>	100182
<b>UniProt ID:</b>	<a href="#">Q80VW7</a>
<b>Cytogenetics:</b>	4 B3-C1
<b>Gene Summary:</b>	Centrosomal protein that plays a key role in cell delamination by regulating microtubule organization (PubMed:30787442). Required for the delamination and retention of neural stem cells from the subventricular zone during neurogenesis (PubMed:30787442). Also regulates the epithelial-to-mesenchymal transition in other epithelial cells (PubMed:30787442). Acts by increasing centrosomal microtubule nucleation and recruiting nucleation factors and minus-end stabilizers, thereby destabilizing microtubules at the adherens junctions and mediating constriction of the apical endfoot (PubMed:30787442). In addition, may also act as a transcription factor that specifically activates the expression of the CD40 receptor and its ligand CD40L/CD154, two cell surface molecules on lymphocytes that are critical for antigen-dependent-B-cell development (By similarity). Binds to A/T-rich promoters (By similarity). It is unclear how it can both act as a microtubule organizer and as a transcription factor; additional evidences are required to reconcile these two apparently contradictory functions (Probable).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211970L3