

### Product datasheet for KN310624BN

## Myo18a Mouse Gene Knockout Kit (CRISPR)

**Product data:** 

**Product Type:** Knockout Kits (CRISPR)

Format: 2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control

**Donor DNA:** mBFP-Neo Symbol: Myo18a Locus ID: 360013

KN310624G1, Myo18a gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) Components:

KN310624G2, Myo18a gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

KN310624BND, donor DNA containing left and right homologous arms and mBFP-Neo

functional cassette.

GE100003, scramble sequence in pCas-Guide vector

NM 001291212, NM 001291213, NM 001291214, NM 001291215, NM 011586 RefSeq:

**UniProt ID:** Q9JMH9

Synonyms: MAJN; MyoPDZ; MysPDZ; SP-R210

**Summary:** May link Golgi membranes to the cytoskeleton and participate in the tensile force required

> for vesicle budding from the Golgi. Thereby, may play a role in Golgi membrane trafficking and could indirectly give its flattened shape to the Golgi apparatus (PubMed:19837035). Alternatively, in concert with LURAP1 and CDC42BPA/CDC42BPB, has been involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and

migration (By similarity). May be involved in the maintenance of the stromal cell architectures required for cell to cell contact (PubMed:10733906). Regulates trafficking, expression, and

activation of innate immune receptors on macrophages. Plays a role to suppress inflammatory responsiveness of macrophages via a mechanism that modulates CD14 trafficking (PubMed:25965346). Acts as a receptor of surfactant-associated protein A (SFTPA1/SP-A) and plays an important role in internalization and clearance of SFTPA1-

opsonized S.aureus by alveolar macrophages (PubMed:21123169). Strongly enhances natural

killer cell cytotoxicity (By similarity).[UniProtKB/Swiss-Prot Function]



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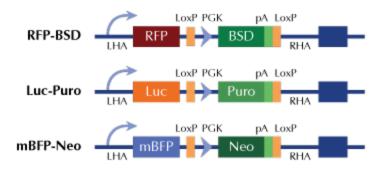
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# **Product images:**

#### Donor Vector Edited Chromosome



RFP, Luc, and mBFP will be under native gene promoter