

Product datasheet for RC214586L3

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OriGene Technologies, Inc.

BMP2 (NM_001200) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: BMP2 (NM 001200) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: BMP2

Synonyms: BDA2; BMP2A; SSFSC; SSFSC1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

Sgfl-Mlul

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clone is exactly the same as(RC214586).

Sequence:

Restriction Sites: Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001200

ORF Size: 1188 bp



BMP2 (NM_001200) Human Tagged Lenti ORF Clone - RC214586L3

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. More info

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 Method: 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

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.

RefSeq: <u>NM 001200.1</u>

RefSeq Size:1547 bpRefSeq ORF:1191 bp

UniProt ID: P12643

Locus ID:

Cytogenetics: 20p12.3

Domains: TGFb propeptide, TGF-beta

650

Protein Families: Adult stem cells, Cancer stem cells, Druggable Genome, Embryonic stem cells, ES Cell

Differentiation/IPS, Induced pluripotent stem cells, Secreted Protein, Stem cell relevant

signaling - TGFb/BMP signaling pathway, Transmembrane

Protein Pathways: Acute myeloid leukemia, Basal cell carcinoma, Cytokine-cytokine receptor interaction,

Endocytosis, Hedgehog signaling pathway, Hematopoietic cell lineage, Melanogenesis,

Pathways in cancer, TGF-beta signaling pathway

MW: 44.63 kDa

Gene Summary: This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta)

superfamily of proteins. Ligands of this family bind various TGF-beta receptors leading to

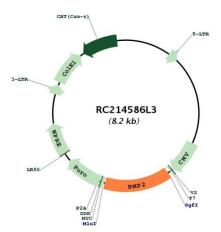
recruitment and activation of SMAD family transcription factors that regulate gene

expression. The encoded preproprotein is proteolytically processed to generate each subunit of the disulfide-linked homodimer, which plays a role in bone and cartilage development. Duplication of a regulatory region downstream of this gene causes a form of brachydactyly characterized by a malformed index finger and second toe in human patients. [provided by

RefSeq, Jul 2016]



Product images:



Circular map for RC214586L3