

Product datasheet for **MC209550**

Tnfsf11 (NM_011613) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tnfsf11 (NM_011613) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Tnfsf11
Synonyms:	Ly109l; ODF; OPGL; RANKL; Trance
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209550 representing NM_011613 Red=Cloning site Blue=ORF

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGCGCCGGGCCAGCCGAGACTACGGCAAGTACCTGCGCAGCTCGGAGGAGATGGGCAGCGGCCCGGGCG
TCCACACAGGGTCCGCTGCACCCCGCGCTTCTGCACCGGCTCCGGCGCCACCCGCGCTCCCG
CTCCATGTTCTGGCCCTCCTGGGGCTGGGACTGGCCAGGTGGTCTGCAGCATCGCTCTGTTCTGTAC
TTTCGAGCGCAGATGGATCCTAACAGAATATCAGAAGACAGCACTCACTGCTTTTATAGAATCCTGAGAC
TCCATGAAAACGCAGGTTTGCAGGACTCGACTCTGGAGAGTGAAGACACACTACCTGACTCCTGCAGGAG
GATGAAACAAGCCTTTCAGGGGGCCGTGCAGAAGGAACTGCAACACATTGTGGGGCCACAGCGCTTCTCA
GGAGCTCCAGCTATGATGGAAGGCTCATGGTTGGATGTGGCCAGCGAGGCAAGCCTGAGGCCAGCCAT
TTGCACACCTCACCATCAATGCTGCCAGCATCCCATCGGGTCCCATAAAGTCACTCTGTCTCTTGGTA
CCACGATCGAGGCTGGCCAAGATCTCTAACATGACGTTAAGCAACGGAAAATAAGGGTTAACCAAGAT
GGCTTCTATTACCTGTACGCCAACATTTGCTTTCGGCATCATGAAACATCGGGAAGCGTACCTACAGACT
ATCTTCAGCTGATGGTGTATGTCGTTAAAACCAGCATCAAATCCCAAGTTCTCATAACCTGATGAAAGG
AGGGAGCACGAAAACTGGTCGGCAATTCTGAATCCACTTTTATTCCATAAATGTTGGGGATTTTTTC
AAGCTCCGAGCTGGTGAAGAAATTAGCATTCCAGGTGTCCAACCCTCCCTGCTGGATCCGGATCAAGATG
CGACGTACTTTGGGGCTTCAAAGTTTCAGGACATAGACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1732_a09.zip

Restriction Sites: SgfI-MluI



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ACCN:	NM_011613
Insert Size:	951 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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:	BC131970 , AAI31971
RefSeq Size:	1320 bp
RefSeq ORF:	951 bp
Locus ID:	21943
UniProt ID:	O35235
Cytogenetics:	14 41.26 cM
Gene Summary:	Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. May be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy (By similarity). Induces osteoclastogenesis by activating multiple signaling pathways in osteoclast precursor cells, chief among which is induction of long lasting oscillations in the intracellular concentration of Ca (2+) resulting in the activation of NFATC1, which translocates to the nucleus and induces osteoclast-specific gene transcription to allow differentiation of osteoclasts (PubMed:24039232). During osteoclast differentiation, in a TMEM64 and ATP2A2-dependent manner induces activation of CREB1 and mitochondrial ROS generation necessary for proper osteoclast generation (PubMed:23395171, PubMed:26644563).[UniProtKB/Swiss-Prot Function]