

Product datasheet for **SC212508**

RANKL (TNFSF11) (NM_003701) Human 3' UTR Clone

Product data:

Product Type: 3' UTR Clones
Product Name: RANKL (TNFSF11) (NM_003701) Human 3' UTR Clone
Vector: pMirTarget (PS100062)
Symbol: TNFSF11
Synonyms: CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TNLG6B; TRANCE
ACCN: NM_003701
Insert Size: 1125 bp
Insert Sequence: >SC212508 3'UTR clone of NM_003701
The sequence shown below is from the reference sequence of NM_003701. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon **Red**=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GGGGCTTTTAAAGTTTCGAGATATAGATTGAGCCCCAGTTTTTGGAGTGTTATGTATTTCTGGATGTTT
GGAAACATTTTTTAAACAAGCCAAGAAAGATGTATATAGGTGTGTGAGACTACTAAGAGGCATGGCCC
CAACGGTACACGACTCAGTATCCATGCTCTTGACCTTGTAGAGAACACGGTATTTACAGCCAGTGGGA
GATGTTAGACTCATGGTGTGTTACACAATGGTTTTAAATTTTGAATGAATTCCTAGAATTAACCAG
ATTGGAGCAATTACGGGGTGACCTTATGAGAACTGCATGTGGGCTATGGGAGGGGTTGGTCCCTGGTC
ATGTGCCCTTCGCAGCTGAAGTGGAGAGGGTGTCTAGCGCAATTGAAGGATCATCTGAAGGGGCA
AATTCTTTGAATTGTTACATCATGCTGGAACCTGCAAAAAATACTTTTCTAATGAGGAGAGAAAAATA
TATGATTTTTATATAATCTAAAGTTATATTTAGATGTAATGTTTTCTTTGCAAAGTATTGTAAT
TATATTTGTGCTATAGTATTTGATTCAAAATATTTAAAAATGTCTTGCTGTTGACATATTTAATGTTTT
AAATGTACAGACATATTTAACTGGTGCCTTTGTAATTCCTGGGAAAACCTTGACGCTAAGGAGGGG
AAAAAATGTTGTTTCTAATATCAAATGCAGTATATTTCTTCGTTCTTTTTAAGTTAATAGATTTTTT
CAGACTTGTCAAGCCTGTGCAAAAAAATAAAAATGGATGCCTTGAATAATAAGCAGGATGTTGGCCACC
AGGTGCCTTTCAAATTTAGAACTAATTGACTTTAGAAAGCTGACATTGCCAAAAAGGATACATAATGG
GCCACTGAAATCTGTCAAGAGTAGTTATATAATTGTTGAACAGGTGTTTTCCACAAGTCCGCAAAT
GTACCTTTTTGTTTTTCAAATAGAAAAGTTATTAGTGGTTTATCAGCAAAAAGTCCAATTTAAT
TTAGTAAATGTTATCTTACTGTACAATAAAAACATTGCCTTTGAATGTTAATTTTTGGTACAAAAA
TAAATTTATATGAAAACCTGC
AGCGGACCGACTTACGCGTAAGCGCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCAGAGATTTTCGATTCCACCGCCGC
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Restriction Sites: SgfI-RsrII



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).
Components:	The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.
RefSeq:	<u>NM_003701.4</u>
Summary:	This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dendritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found. [provided by RefSeq, Jul 2008]
Locus ID:	8600
MW:	43.1