

## Product datasheet for SC212507

### RANKL (TNFSF11) (NM\_033012) Human 3' UTR Clone

#### Product data:

**Product Type:** 3' UTR Clones  
**Product Name:** RANKL (TNFSF11) (NM\_033012) Human 3' UTR Clone  
**Vector:** pMirTarget (PS100062)  
**Symbol:** TNFSF11  
**Synonyms:** CD254; hRANKL2; ODF; OPGL; OPTB2; RANKL; sOdf; TNLG6B; TRANCE  
**ACCN:** NM\_033012  
**Insert Size:** 1125 bp  
**Insert Sequence:** >SC212507 3'UTR clone of NM\_033012  
 The sequence shown below is from the reference sequence of NM\_033012. 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
GGGGCTTTTAAAGTTTCGAGATATAGATTGAGCCCCAGTTTTTTGGAGTGTTATGTATTTCTGGATGTTT
GGAAACATTTTTTAAACAAGCCAAGAAAGATGTATATAGGTGTGTGAGACTACTAAGAGGCATGGCCC
CAACGGTACACGACTCAGTATCCATGCTCTTGACCTTGTAGAGAACACGGTATTTACAGCCAGTGGGA
GATGTTAGACTCATGGTGTGTTACACAATGGTTTTTAAATTTTGAATGAATTCCTAGAATTAACCAG
ATTGGAGCAATTACGGGGTGACCTTATGAGAACTGCATGTGGGCTATGGGAGGGTTGGTCCCTGGTC
ATGTGCCCTTCGCAGCTGAAGTGGAGAGGGTGTCTAGCGCAATTGAAGGATCATCTGAAGGGGCA
AATTCTTTGAATTGTTACATCATGCTGGAACCTGCAAAAAATACTTTTCTAATGAGGAGAGAAAAATA
TATGATTTTTATATAATCTAAAGTTATATTTAGATGTAATGTTTTCTTTGCAAAGTATTGTAAT
TATATTTGTGCTATAGTATTTGATTCAAAATATTTAAAAATGTCTTGCTGTTGACATATTTAATGTTTT
AAATGTACAGACATATTTAACTGGTGCCTTTGTAATTCCTGGGAAAACCTGCAGCTAAGGAGGGG
AAAAAATGTTGTTTCTAATATCAAATGCAGTATATTTCTTCGTCTTTTAAAGTTAATAGATTTTTT
CAGACTTGTCAAGCCTGTGCAAAAAATTTAAATGGATGCCTTGAATAATAAGCAGGATGTTGGCCACC
AGGTGCCTTTCAAATTTAGAACTAATTGACTTTAGAAAGCTGACATTGCCAAAAAGGATACATAATGG
GCCACTGAAATCTGTCAAGAGTAGTTATATAATTGTTGAACAGGTGTTTTCCACAAGTCCGCAAAT
GTACCTTTTTGTTTTTTCAAATAGAAAAGTTATAGTGGTTTATCAGCAAAAAGTCCAATTTAAT
TTAGTAAATGTTATCTTACTGTACAATAAAAACATTGCCTTTGAATGTTAATTTTTGGTACAAAA
TAAATTTATGAAAACCTGC
AGCGGACCGACTTACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCC
CAACCTGCCATCAGAGATTTTCGATTCCACCGCCGC
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**Restriction Sites:** SgfI-RsrII



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<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_033012.4</a>
<b>Summary:</b>	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]
<b>Locus ID:</b>	8600
<b>MW:</b>	43.1