

Product datasheet for **RN210416**

Micalcl (NM_182669) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Micalcl (NM_182669) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Micalcl
Synonyms:	RSB-11-77
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >RN210416 representing NM_182669
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACCAAAGAGCACTGTCGCCTCCAAGGAGCCTCCTCCTCATCTTCGTCGCTTCACCTTCCCTGC
 CATCTTCATTTTTCTCAGCTAGGTACCTGGGCACACTACAGATGATTCCCTCCTCCTCAGGTGCCAGC
 ATACAACCTCCACTCCCCACAGATCTCCAGAGACGATGTCAGCCCCACTCCAATCTACCTCAGACGTGCC
 AGGGCTCAAGGAATTACGAAGGAAATCCCCCTCTATCTGCCTCATAGCCCCATGTGGAGAGCACGGAAC
 ACTGCCTGGTTAGCCCTGATGGAGAAGAACTCAGAAGCCCTGAGGAGATCTCGGCTTCAGACGGCTGCCA
 GAAAGCACTGGCTCTGGAAACAGCGAAAGCACACAAAAGATTCTACCCCGTTTCAGGGAAGGACCCG
 TATTTGCCAATCAAATGCTAGCTCTTGGTGGCGCAGGGAACACAGGAGACTTGAGTGAGGAATCCAGGA
 TGGGACAGACAGGTGGAGCAGAGCTGTCCAAGAAAGGAAGTTGGGCTTGAAGAAATTAGTCTCACTGA
 GGAGCAGAAGACCATGTTGCTAGACTGGAATGACTACCCAGGAGCACAAAGCTGGGGAGCGGCTCGCG
 CAGGAAAAGGCTGAGAATGGCAGAGGCAATAGCCTGAAGCCAATCTGCTCTTCTACCCCTCTCAGGCGG
 TGAAAGAGAAAATTGCTATCCCAGAAAAAGCCCTGGGGGAGACACGTACCCAGCTGCCAAGGCACCCCG
 GGAACGAGAAGTTCTCCACCCAAGTCCCCCTTAAAGGCTCATAGCAAACGCCATCTTTAGGTCTCTGCTC
 CCCAGTTCTGAAGCTGGAAAAAGACAAGCTCTAAACCAGAGACCAAACTTTGCCTAGGGGTGACGCCG
 ATGCTTTCACCTCGTTCCTTTAGCTTCCGGAAACTGGGTCCAGTAAAGATGGGGACCAGCAGTCTCCAGG
 GAGACACATGGCCAAGAAGGCTTCAGCCTTCTTCTCTGGCTTCTCAACATCTAAGGCTGCCAGGCC
 TCAGACCTTAGCCCTCCAACCCCATCTCCGAAGCCGGAGTTTGCCCAATCGTCCATCCAAGATGTTCT
 TTGCAACCACATCCCTACCACCCAGCAGCAAGGTTGAAGATGTCCCAACCCTCTAGAGAAAGTGAGTTT
 GCAGGATGCCGCTCAAGGTCCAAGAAAGGAGCCTCACATATTTCTCCCTTGGCCTCAAAGATAAATCC
 TTTGAGAGTTTTCTCAGGAATGCAAAGAAAGAAAGGACATTGGGGACTTCTTTAATAGCCCAAGGAGA
 AGGGGCCACCAGGGAACAGAGTCCCATCTTGGAGAAGCTGGTGCAGCCTGTTGACAGCACCTCCATGGG
 GCAGGTGGCACATCCTTCTTCCACAGGGCAAGATGCACGCCCTGGAGCTCCAGTGACAGAGGACACCTCT
 TCTCCTACCTCGTCTCTGCAGAGGAAGATGTTGAGACTCAGCTTCTCAAGGTTAAAGGAGAAGATAC
 CAAGAAGGAGGAGGAAGCTGGAGAAGCAGATGGCTAAGCAAGAAGAAATGAAAAGACTCCATAAGGCTCA
 GGCCATCCAGAGACAAGTAGAGGAGGTGGAAGAGCGGCAGAGGACGTGAGATCCAGGGTGTGAGGCTG
 GAGAAGGTGCTGAGAGGAGAAACAGATTACAGGACACAGGACGAAGCCAGCTTTTGAGGAATGGTTTA
 AGCTGGTTCTGGAGAAGAATAAATTAATGCGATATGAGTCGGAGCTACTGATCATGGCCCAAGAAGTACA
 ACTAGAAGATCATCAGAGCAGACTGGAGCAGAACTACGACAGAAAATGCTCAAGGATGAGGGCCAGAAA
 GATGAGAATGATCTAAAGGAGGAGCAAGAAATATTCGAGGAGATGATGCAGGTGATTGAGCAAAGAAACA
 AGCTTGTGGATTCCCTAGAGGAACAGCGCATCAAAGAAAGAACCCAGGATCAACACTTTGAAAACCTTGT
 TCTCTCCAGAGGCTGTCAGCTCAGCAGGACT**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAAGTTTAA

- Restriction Sites:** Sgfl-Mlul
- ACCN:** NM_182669
- Insert Size:** 2064 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:

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: [NM_182669.2](#), [NP_872610.2](#)

RefSeq Size: 2352 bp

RefSeq ORF: 2064 bp

Locus ID: 293180

UniProt ID: [Q4G091](#)

Cytogenetics: 1q33

Gene Summary: May cooperate with MAPK1/ERK2 via an intracellular signal transduction pathway in the morphogenetic development of round spermatids to spermatozoa. May act as Rab effector protein and play a role in vesicle trafficking.[UniProtKB/Swiss-Prot Function]