

## Product datasheet for RC204754

### S100Z (NM\_130772) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	S100Z (NM_130772) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	S100Z
Synonyms:	Gm625; S100-zeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<p>&gt;RC204754 ORF sequence</p> <p>Red=Cloning site Blue=ORF Green=Tags(s)</p> <p>TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC</p> <p>ATGCCACCCAGCTCGAGATGGCCATGGACACCATGATTAGAATCTTCCACCGCTATTCTGGCAAGGCAA        GGAAGAGATTCAAGCTCAGCAAGGGGAACTGAACTGCTCTGCAGCGAGAGCTCACGGAATTCCTCTC        GTGCCAAAAGGAAACCCAGTTGGTTGATAAGATAGTCAGGACCTGGATGCCAATAAGGACAACGAAGTG        GATTTTAATGAATTCGTGGTCATGGTGGCAGCTCTGACAGTTGCTTGAATGATTACTTTGTAGAACAAT        TGAAGAAGAAAGGAAAA</p> <p>ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT        ACAAGGATGACGACGATAAGGTTTAA</p>
Protein Sequence:	<p>&gt;RC204754 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MPTQLEMAMDTMIRIFHRYSGKARKRFKLSKGELKLLQRELTEFLSCQKETQLVDKIVQDLANKDNEV        DFNEFVVMVAALTVCANDYFVEQLKKKGK</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Chromatograms:	<a href="https://cdn.origene.com/chromatograms/mk6438_d11.zip">https://cdn.origene.com/chromatograms/mk6438_d11.zip</a>
Restriction Sites:	SgfI-MluI


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**Cloning Scheme:**


**ACCN:** NM\_130772

**ORF Size:** 297 bp

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_130772.2](#)

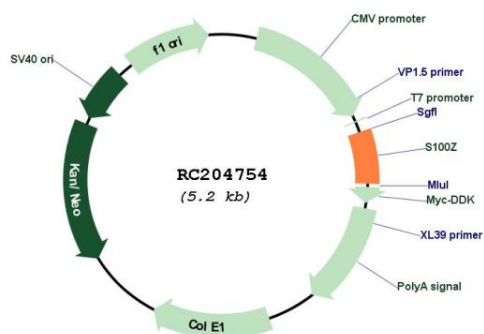
**RefSeq Size:** 1164 bp

**RefSeq ORF:** 300 bp

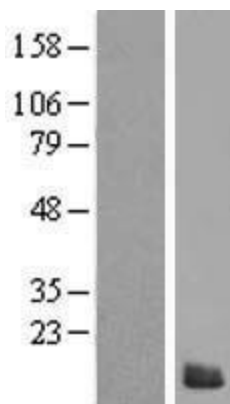
**Locus ID:** 170591  
**UniProt ID:** [Q8WXG8](#)  
**Cytogenetics:** 5q13.3  
**MW:** 11.6 kDa

**Gene Summary:** Members of the S100 protein family contain 2 calcium-binding EF-hands and exhibit cell-type specific expression patterns. For additional background information on S100 proteins, see MIM 114085.[supplied by OMIM, Mar 2008]

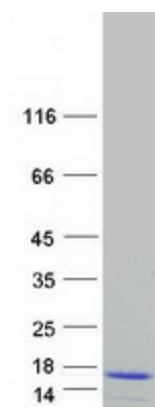
## Product images:



Circular map for RC204754



Western blot validation of overexpression lysate (Cat# [LY408935]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204754 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified S100Z protein (Cat# [TP304754]). The protein was produced from HEK293T cells transfected with S100Z cDNA clone (Cat# RC204754) using MegaTran 2.0 (Cat# [TT210002]).