

## Product datasheet for MR224717

### Zfp322a (NM\_172586) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Zfp322a (NM_172586) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zfp322a
Synonyms:	Znf322; Znf322a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224717 representing NM_172586 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAAAAACCACTTAGGAGAGAACCATAGAAGATGTACACTTCAGAAGAGGAATGTAACCAGAGAACTCA  
AAAAAGGAAAACATACCATGTATGCCCTCAAAGGGTGAAAAAGATTTATATTCGTGTACATGAGATTAC  
TCAAATAGATAATCAAACATATCAGTGCCTTGAACGTGAACAAAACCTTTGTGAAAACCTTAGCACGAATG  
TGTGAGAGAACATATACCGAGGAGAAAACCTTATAGATGTGATATGTGTGAGAAAACCTTCATCCAAAGTT  
CAGATCTTATTTCCACCAGAGGATCCATAATTACGAGAAAACCTTATAAGTGTAGCAAATGTGAGAAGAG  
CTTTTGGCACCACCTTAGCCCTTTCAGGACACCAGAGAACACATGCAGGTAAGGTTTATACCTGTGAC  
ATCTGTGGCAAGAATTTGGTCAGAGCTCTGATCTGCTTGTCCACCAGCGAAGCCATACAGGTGAAAAAC  
CTTATCTGTGTAATGAGTGTGATAAATGCTTCAGTCGAAGTACAAATCTCATAAGGCACCGAAGAAGTCA  
CACAGGTGAGAAAACCGTTAAGTGTCTGGAATGTGAAAAAGCTTTTAGTGGGAAATCAGATCTTATTAGC  
CACCAAAGGACTCATACCGGTGAAAGGCCCTACAAATGCAATAAATGTGAGAAAAGTTACCGACACCGGT  
CTGCCTTCATTGTGCATAAAAGAGTTCACTACTGGGAGAAAGCCGTACAAGTGTGGTGCCTGTGAGAAGTG  
GAGTGTATGAGAAGTTTTACTCGAAGTGCCAACCTAATTAGGCACCGCAACTCACACTCATACTTTCA  
AATGCCTTGAATATGAGAAAAGTTTCAACTGTAGCTCAGACTTTATTGTACATCAGAGAATTCATATGGA  
AGAAAAACCACATCAATGGTCTATGTGTGAGAGTGAATTCCTCCTAGGTATGGACTTCGTTGCCAGCAG  
AAAATGAGGGCTCAAACAGAGGAGCTCCATTATAAATACAGTGTATGTGATAAAACCTTTTCATCAGCT  
CAGCCCTTCTTCAACATCAGACAGTGCACATTGATGATGAATACATCTGTAACATGAGTGAAAAAGGGCT  
TGATCTAAGTTCTCAGCATCGGAAACCTCACGTGTGCT

**ACGGT**ACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR224717 representing NM\_172586  
Red=Cloning site Green=Tags(s)

MENHLGENHRRCTLQKRNVTRELKKGKHTMYALKRVKKIYIRVHEITQIDNQTYQCLEREQNFENLARM  
 CERTYTEEKPYRCMDCEKTFIQSSDLISHQRIHNYEKPYKCSKCEKSFVHHLALSGHQRTTHAGKKFYTC  
 ICGKNFGQSSDLLVHQRSHTGEKPYLCNECDKCFSRSTNLIHRRTHTGEKPFKLECEKAFSGKSDLIS  
 HQRTHTGERPYKCNKCEKSYRHSAFIVHKRVHTGEKPYKCGACEKCFGQKSDLIVHQRVHTGEKPYKCL  
 ECMRSFTRSANLIRHQATHHTFKCLEYEKSFNCSSDFIVHQRIHMEEKPHQWSMCESDFLLGMDFVAQQ  
 KMRAQTEELHYKYSVCDKTFHSSALLQHQTVIDDEYICNMSEKGLDLSSHASETSRVS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_172586

**ORF Size:** 1230 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.

**RefSeq:** [NM\\_172586.4](#), [NP\\_766174.1](#)

**RefSeq Size:** 4844 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 218100

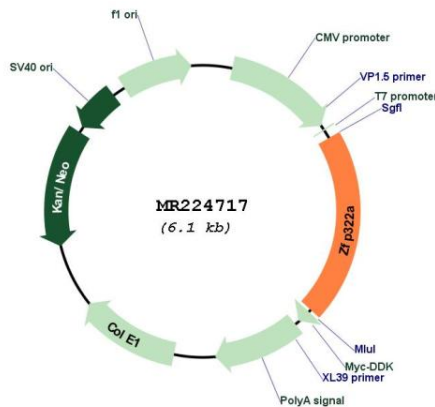
**UniProt ID:** [Q8BZ89](#)

**Cytogenetics:** 13 A3.1

**MW:** 48.5 kDa

**Gene Summary:** Transcriptional activator. Important for maintenance of pluripotency in embryonic stem cells. Binds directly to the POU5F1 distal enhancer and the NANOG proximal promoter, and enhances expression of both genes. Can also bind to numerous other gene promoters and regulates expression of many other pluripotency factors, either directly or indirectly. Promotes inhibition of MAPK signaling during embryonic stem cell differentiation. [UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR224717