

Product datasheet for **RR212279**

Pou4f3 (NM_001108889) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pou4f3 (NM_001108889) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pou4f3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR212279 representing NM_001108889 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGGCCATGAACGCCAAGCAGCCTTTCGGCATGCACCCGTAAGCAAGAACCCAAATCTCCAGCC
TGCCTCCGGCTCTGAGGCCATGCGCCGAGTTTGTCTCCAGCCCGCAGCTGCAGGGTAATATATTTGG
AAGCTTTGATGAGAGCCTGCTGGCAGCGCCGAAGCTCTGGCGGGTGGATATCGTCTCCACGGCAAG
AACCATCCGTTCAAGCCCGACGCCACCTACCATACCATGAGCAGCGTGCCTGCACGTCCACCTCGCCCA
CGGTGCCATCTCCACCCGGCTGCACTCACCTCGCACCCGCATCACCCGGTACATCAGGGCCTCGAGGG
CGACTTACTGGAGCACATCTCGCCACGCTGAGCGTGAGCGGCCTAGGGGCCCGGAGCACTCCGTGATG
CCGGCGCAGATCCACCCGCATCTAGGGCCATGGGCCACTTGATCAGGCCATGGGCATGAGTCACC
CGCATGCCGTAGCACCTCACAGTGCCATGCCTGCGTGTCTCAGCGATGTGGAGTCAGACCCTCGAGAGCT
GGAGGCGTTTCGCCGAGCGCTTCAAGCAGAGGCGCATCAAGTTGGGGTAACCCAGGCGGACGTGGGCGG
GCTTTAGCCAATCTTAAGATCCCGGCGTGGGCTCTCTCAGCCAGAGCACCATCTGCAGGTTTCGAGTCTC
TTACCCTGTCGCACAACAACATGATCGCGCTCAAGCCAGTCTCCAGGCCTGGCTGGAGGAGGCCGAGGC
CGCTACCGAGAGAAGAACAGCAAGCCGAGCTTTCAACGGCAGTGAGCGTAAGCGCAAACGCAGCTCC
ATCGCCGCGCCAGAGAAGCGCTCACTCGAAGCCTATTTGCCATCCAGCCACGTCTTTCATCTGAAAAGA
TCGCGGCCATCGCTGAGAACTGGACCTTAAAAAGAAATGTGGTGAGGGTCTGTTTCTGTAACCAGAGACA
GAAACAGAAACGAATGAAGTACTCTGCTGTCCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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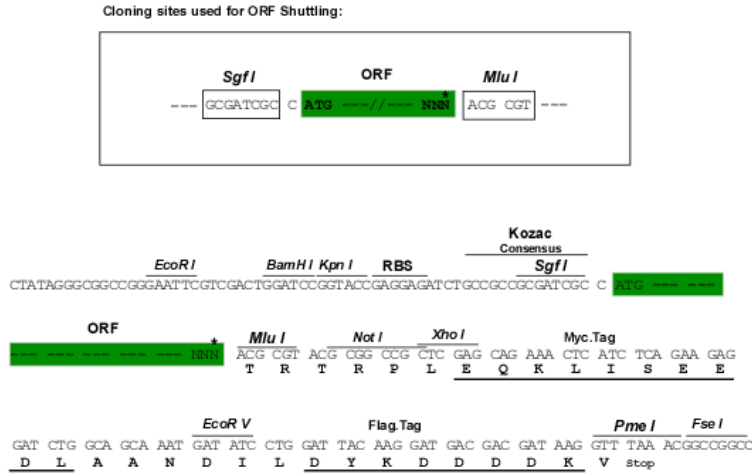
Protein Sequence: >RR212279 representing NM_001108889
 Red=Cloning site Green=Tags(s)

MMAMNAKQPFGMHPVLQEPKFSSLHSGSEAMRRVCLPAPQLQGNIFGGSFDESLLARAEALAAVDIVSHGK
 NHPFKPDATYHTMSSVPCTSTSPVPI SHPAAL TSHPHHPVHQGLEGLLEHISPTLSVSGLGAPEHSVM
 PAQIHPHHLGAMGHLHQAMGMSHPHAVAPHSAMPACLSDVESDPRELEAF AERFKQRRIKLGVTQADVGA
 ALANLKIPGVGSLSQSTICRFESLTL SHNMIALKPVLQAWLEEAAYREKNSKPEL FNGSERKRRKRTS
 IAAPEKRSLEAYFAIQPPRSSEKIAAIAEKLDLKKNVVRVWFCNQQRQKQKRMKYS AVH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

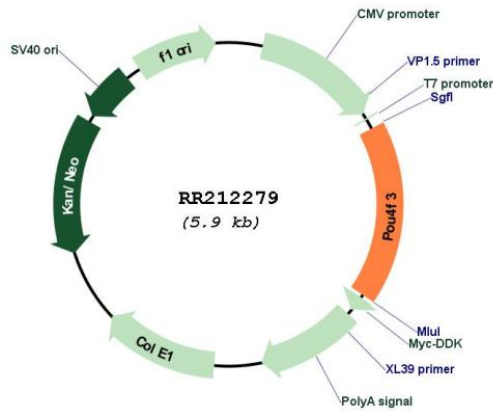
Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001108889

ORF Size:	1014 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:	<ol style="list-style-type: none">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_001108889.1 , NP_001102359.1
RefSeq Size:	2272 bp
RefSeq ORF:	1017 bp
Locus ID:	364855
UniProt ID:	D3ZTL1
Cytogenetics:	18p11
MW:	37 kDa
Gene Summary:	Acts as a transcriptional activator. Acts by binding to sequences related to the consensus octamer motif 5'-ATGCAAAT-3' in the regulatory regions of its target genes. Involved in the auditory system development, required for terminal differentiation of hair cells in the inner ear.[UniProtKB/Swiss-Prot Function]