

Product datasheet for **RC208598**

POU6F1 (NM_002702) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POU6F1 (NM_002702) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POU6F1
Synonyms:	BRN5; MPOU; TCFB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC208598 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCAGGGATCAGCAGTCAGATCCTCACCAATGCTCAGGGACAGGTTATTGGAACCCCTCCATGGGTAG
TGAAGTCAAGTGTGGCGGCCCCAGCACCAGCCAAAGCCTGCAGGTCCAGGCCGTGACCCCCAGT
GTTGTTGAACGCCAGGGCCAGGTGATTGCGACCCTGGCTAGCAGCCCCCTGCCTCCACCTGTGGCTGC
CGAAGCCAAGCACACCTGAGTCCCCTGCTAAGAGTGAGGTGCAGCCCATCCAGCCACACCAACCGTGC
CCCAGCCTGCTGTGGTCAATTGCCAGCCAGCTCCAGCCGCAAGCCATCTGCCTCTGCTCCTATCCAAT
TACCTGCTCAGAGACCCACCGTCAGCCAGTTGGTGTCCAAGCCACATACTCCAAGTCTGGATGAGGAT
GGGATCAACTTAGAAGAGATCCGGGAGTTTGCCAAGAAGTTAAGATCCGGCGGCTCTCGCTGGGCCTTA
CACAGACCCAGGTGGGTGAGGCTCTGACTGCAACGGAAGGTCCAGCCTACAGCCAGTCAGCCATCTGCCG
GTTGAGAAGCTAGACATCACACCAAGAGTGCCAGAAGCTAAAGCCGGTGTGGAAAAGTGGCTAAAC
GAAGCTGAAGTGCAGAACAGGAAGGCCAGCAGAACCTGATGGAGTTTGTGGGAGGCGAGCCCTCCAAGA
AACGCAAACGCCGACCTCCTTCAACCCAGGCCATAGAGGCTCTCAATGCCTATTTGAGAAGAAGCC
ACTGCCACAGGCCAGGAGATCACTGAAATTGCTAAGGAGCTCACTACGACCGTGAAGTAGTCCGGGTC
TGTTCTGCAATCGGCGCCAGACGCTCAAGAACCAGCAAGCTGAACGTCTTTCAGATCCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208598 protein sequence
Red=Cloning site Green=Tags(s)

MPGISSQILTNAQGQVIGTLPWVNSASVAAPAPAQSLQVAVTPQLLLNAQGQVIATLASSPLPPPVAV
 RKPSTPESPAKSEVQPIQPTPTVPQPAVVIASPAPAAKPSASAPIPITCSETPTVSQLVSKPHTPSLDED
 GINLEEIREFAKNFKIRRLSLGLTQTQVGQALTATEGPAYSSQSAICRFEKLDITPKSAQKLPVLEKWLN
 EAELRNQEGQQNLMEFVGGEPSSKRRKRRTSFTPQAIEALNAYFEKNPLPTGQEITEIAKELNYDREVVVRV
 WFCNRRQTLKNTSKLNVFQIP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6554_e05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002702

ORF Size: 903 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_002702.3](#)

RefSeq Size: 4715 bp

RefSeq ORF: 906 bp

Locus ID: 5463

UniProt ID: [Q14863](#)

Cytogenetics: 12q13.13

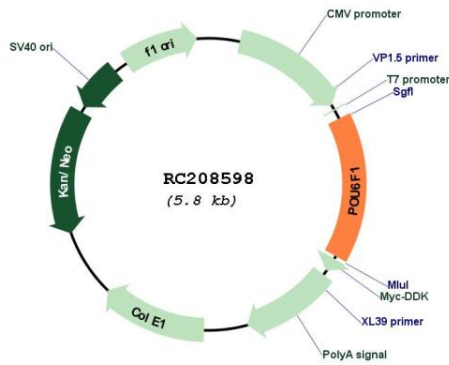
Domains: POU, homeobox

Protein Families: Transcription Factors

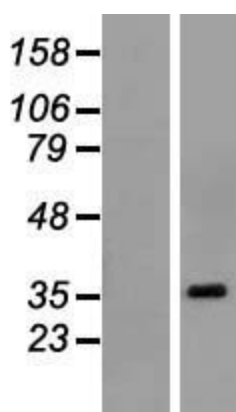
MW: 32.6 kDa

Gene Summary: Transcription factor that binds preferentially to a variant of the octamer motif (5'-ATGATAAT-3').[UniProtKB/Swiss-Prot Function]

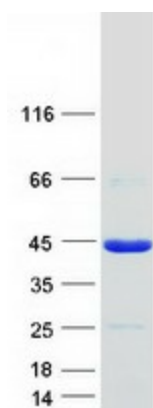
Product images:



Circular map for RC208598



Western blot validation of overexpression lysate (Cat# [LY419157]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208598 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified POU6F1 protein (Cat# [TP308598]). The protein was produced from HEK293T cells transfected with POU6F1 cDNA clone (Cat# RC208598) using MegaTran 2.0 (Cat# [TT210002]).