

Product datasheet for RC207922

Pentraxin 3 (PTX3) (NM_002852) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pentraxin 3 (PTX3) (NM_002852) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pentraxin 3
Synonyms:	TNFAIP5; TSG-14
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207922 representing NM_002852 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCATCTCCTTGCGATTCTGTTTTGTGCTCTCTGGTCTGCAGTGTTGGCCGAGAACTCGGATGATTATG
ATCTCATGTATGTGAATTTGGACAACGAAATAGACAATGGACTCCATCCCACTGAGGACCCACGCCGTG
CGACTGCGGTGAGGAGCACTCGGAATGGACAAGCTCTTCATCATGCTGGAGAACTCGCAGATGAGAGAG
CGCATGCTGCTGCAAGCCACGGACGACGTCTGCGGGGCGAGCTGCAGAGGCTGCGGGAGGAGCTGGCC
GGCTCGCGGAAAGCCTGGCGAGGCGTGCAGCGCCGGGGCTCCCGCAGAGCCAGGCTGACCAGTGTCT
GGACGAGCTGCTGCAGGGGACCCGCGACGCGGGCCGAGCTGGCGCGTATGGAGGGCGCGAGGCGCAG
CGCCAGAGGAGGCGGGGCGCGCCTGGCCGCGGTGCTAGAGGAGCTGCGGCAGACGCGAGCCGACCTGC
ACGCGGTGCGAGGCTGGGCTGCCCGGAGCTGGCTGCCGCGAGTTGTGAAACAGCTATTTTATCCCAAT
GCGTTCCAAGAAGATTTTGGAAAGCGTGCATCCAGTGAGACCAATGAGGCTTGAGTCTTTAGTGCTGC
ATTTGGGTCAAAGCCACAGATGTATTAACAAAACCATCTGTTTTCTATGGCACAAGAGGAATCCAT
ATGAAATCCAGCTGTATCTCAGTACCAATCCATAGTGTGTTGGTGGTGGAGAGGAGAACAACCTGGT
TGCTGAAGCCATGGTTCCCTGGGAAGGTGACCCACCTGTGCGGCACCTGGAATTCAGAGGAAGGGCTC
ACATCCTTGTTGGTAAATGGTGAACCTGGCGCTACCAGTGTGAGATGGCCACAGTCAATTGTTCTCTG
AGGGAGGAATCCTGCAGATTGGCCAAGAAAAGAAATGGCTGTGTGGTGGTGGCTTTGATGAAACATT
AGCCTTCTCTGGGAGACTCACAGGCTTCAATATCTGGGATAGTGTCTTAGCAATGAAGAGATAAGAGAG
ACCGGAGGAGCAGAGTCTGTGCATCCGGGGAAATATTGTTGGTGGGAGTCACAGAGATCCAGCCAC
ATGGAGGAGCTCAGTATGTTTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC207922 representing NM_002852
Red=Cloning site Green=Tags(s)

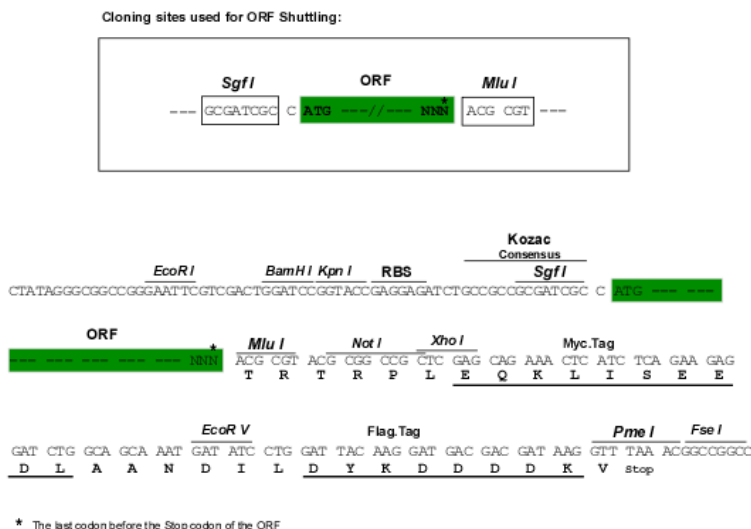
MHLLAILFCALWSAVLAENSDDYDLMYVNLDNEIDNGLHPTEDPTPCDCGQEHSEWDKLFIMLENSQMRE
 RMLLQATDDVLRGELQRLREELGRLAESLARPCAPGAPAEARLTSALDELLQATRDAGRRLARMEGAEAQ
 RPEEAGRALA AVL EELRQTRADLHAVQGWAARSWL PAGCETA I L F P M R S K K I F G S V H P V R P M R L E S F S A C
 I W V K A T D V L N K T I L F S Y G T K R N P Y E I Q L Y L S Y Q S I V F V V G G E E N K L V A E A M V S L G R W T H L C G T W N S E E G L
 T S L W V N G E L A A T T V E M A T G H I V P E G G I L Q I G Q E K N G C C V G G G F D E T L A F S G R L T G F N I W D S V L S N E E I R E
 T G G A E S C H I R G N I V G W G V T E I Q P H G G A Q Y V S

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3517_d02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002852

ORF Size: 1143 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_002852.2](#), [NP_002843.1](#)

RefSeq Size: 1908 bp

RefSeq ORF: 1146 bp

Locus ID: 5806

UniProt ID: [P26022](#)

Cytogenetics: 3q25.32

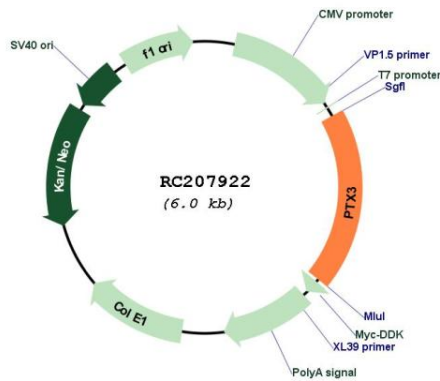
Domains: PTX, LamGL

Protein Families: Secreted Protein

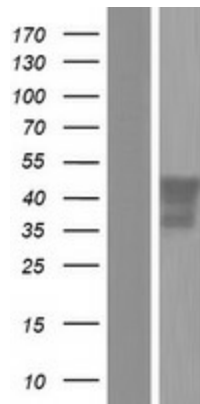
MW: 41.8 kDa

Gene Summary: This gene encodes a member of the pentraxin protein family. The expression of this protein is induced by inflammatory cytokines in response to inflammatory stimuli in several mesenchymal and epithelial cell types, particularly endothelial cells and mononuclear phagocytes. The protein promotes fibrocyte differentiation and is involved in regulating inflammation and complement activation. It also plays a role in angiogenesis and tissue remodeling. The protein serves as a biomarker for several inflammatory conditions. [provided by RefSeq, Jun 2016]

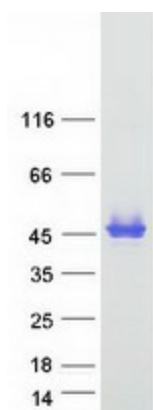
Product images:



Circular map for RC207922



Western blot validation of overexpression lysate (Cat# [LY419080]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207922 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified PTX3 protein (Cat# [TP307922]). The protein was produced from HEK293T cells transfected with PTX3 cDNA clone (Cat# RC207922) using MegaTran 2.0 (Cat# [TT210002]).