

Product datasheet for **RG225868**

PAX7 (NM_001135254) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PAX7 (NM_001135254) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PAX7
Synonyms:	HUP1; MYOSCO; PAX7B; RMS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG225868 representing NM_001135254
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGGCCCTTCCGGCACGGTACCGAGAATGATGCGGCCGGCTCCGGGCAGAACTACCCCGCACGG
 GATTCCCTTTGGAAGTGTCCACCCCGCTTGGCCAAGGCCGGTCAATCAGCTGGGAGGGTCTTCATCAA
 TGGGCGACCCCTGCCTAACCCACATCCGCCACAAGATAGTGGAGATGGCCACCATGGCATCCGGCCCTGT
 GTCATCTCCCGACAGCTGCGTGTCTCCACGGCTGCGTCTCCAAGATTCTTTGCCGTACCAGGAGACCG
 GGTCCATCCGGCCTGGGGCCATCGGCGGACGAAGCCAGACAGGTGGCGACTCCGGATGTAGAGAAAA
 GATTGAGGAGTACAAGAGGGAAAACCCAGGCATGTTTCCAGCTGGGAGATCCGGGACAGGCTGCTGAAGGAT
 GGGCACTGTGACCGAAGCACTGTGCCCTCAGGTTTAGTGAGTTCGATTAGCCGCTGCTCAGAATCAAGT
 TCGGGAAGAAAGAGGAGGAGGATGAAGCGGACAAGAAGGAGGACGACGGGAAAAGAAGGCCAAACACAG
 CATCGACGGCATCTGGGCGACAAGGGAAACCGCTGGACGAGGGCTCGGATGTGGAGTCGGAACCTGAC
 CTCCCACTGAAGCGCAAGCAGCGACGCAGTCGGACCACATTCACGGCCGAGCAGCTGGAGGAGCTGGAGA
 AGGCCTTTGAGAGGACCCACTACCCAGACATATACACCCGCGAGGAGCTGGCGCAGAGGACCAAGCTGAC
 AGAGGCGCGTGTGCAGGTCTGGTTCAGTAAACCGCCGCGCCGTTGGCGTAAGCAGGCAGGAGCAACCGAG
 CTGGCGCGCTTCAACCACCTTCTGCCAGGAGGCTTCCACCCACCGGCATGCCACGCTGCCCCCTACC
 AGCTGCCGGACTCCACCTACCCACACCACCATCTCCAAGATGGGGCAGCACTGTGCACCGGCTCA
 GCCCTGCCACCGTCCACCATGCACAGGGCGGCTGGCTGCAGCGGCTGCAGCCGCCACACAGCTCT
 GCCTACGGAGCCGCCACAGCTTCTCCAGTACTCTGACAGCTTCATGAATCCGGCGCGCCCTCCAACC
 ACATGAACCCGGTCAGCAACGGCTGTCTCTCAGGTGATGAGCATCTTGGGCAACCCCAAGTCCGCTGCC
 CCGCAGCCACAGGCTGACTTCTCCATCTCCCGCTGCATGGCGGCTGGACTCGGCCACCTCCATCTCA
 GCCAGTGCAGCCAGCGGCCGACTCCATCAAGCCAGGAGACAGCCTGCCACCTCCAGGCCTACTGCC
 CACCCACCTACAGCACCACCGGCTACAGCGTGGACCCCGTGGCCGGCTATCAGTACGGCCAGTACGGCCA
 GACTGCTGTTGATTATCTGGCAAAAATGTGAGCCTCTCCACCCAGCGTCGCATGAAGCTCGGGGAGCAC
 TCTGCTGTGCTGGGACTCTGCCTGTGAAACTGGCCAGGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG225868 representing NM_001135254
 Red=Cloning site Green=Tags(s)

MAALPGTVPRMMPAPGQNYPRTFPFLVSTPLGQGRVNQLGGVFINRPLPNHIRHKIVEMAHHGIRPC
 VISRQLRVSHGCVSKILCRYQETGSIRPGAIGGSKPRQVATPDVEKKIEEYKRENPGMFSWEIRDRLKLD
 GHCDRSTVPSGLVSSISRVLRIFGKKEEEDADKEDDGEKKAKHSIDGILGDKGNRLDEGSDVESEPD
 LPLKRKQRRSRTTFTAEQLEELEKAFERTHYDITYTREELAQRKLTARVQVWFSNRRARWRKQAGANQ
 LAAFNHLLPGGFPPTGMPPLPPYQLPDSTYPTTTISQDGGSTVHRPQPLPSTMHQGLAAAAAADTSS
 AYGARHSFSSYSDFMNPAAPSNHMNPVSNGLSPQVMSILGNPSAVPPQPQADFSISPLHGGLDSATSIS
 ASCSQRADSIKPGDSLPTSQAYCPPTYSTTGYSVDPVAGYQYQYQGTAVDYLAKNVSLSTQRRMKLGEH
 SAVLGLLPVETGQAY

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001135254

ORF Size: 1515 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_001135254.2](#)

RefSeq Size: 6053 bp

RefSeq ORF: 1518 bp

Locus ID: 5081

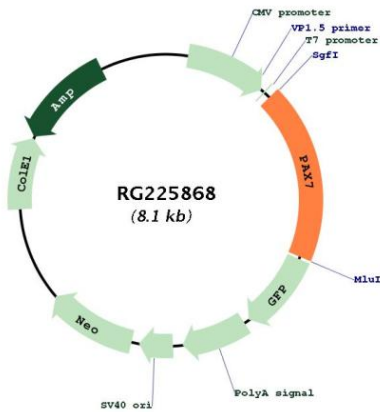
UniProt ID: [P23759](#)

Cytogenetics: 1p36.13

Protein Families: Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Transcription Factors

Gene Summary: This gene is a member of the paired box (PAX) family of transcription factors. Members of this gene family typically contain a paired box domain, an octapeptide, and a paired-type homeodomain. These genes play critical roles during fetal development and cancer growth. The specific function of the paired box 7 gene is unknown but speculated to involve tumor suppression since fusion of this gene with a forkhead domain family member has been associated with alveolar rhabdomyosarcoma. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2008]

Product images:



Circular map for RG225868