

Product datasheet for **SC122658**

PAX8 (NM_003466) Human Untagged Clone

Product data:

| | |
|---------------------------|---------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | PAX8 (NM_003466) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | PAX8 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL5</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

Fully Sequenced ORF:

```
>OriGene sequence for NM_003466 edited
CTTCAGAAGGAGGAGAGACACCGGGCCAGGGCACCTCGCGGGCGGACCCAAGCAGTGA
GGGCTGCAGCCGGCCGGCCAGGGCAGCGGCAGGCGGGCCCGGACCTACGGGAGGAAGC
CCCCAGCCCTCGGCGGGCTGCGAGCGACTCCCCGGCGATGCCTCACAACCTCCATCAGATC
TGGCCATGGAGGGCTGAACCAGCTGGGAGGGCCCTTTGTGAATGGCAGACCTCTGCCGGA
AGTGGTCCGCGCAGCGCATCGTAGACCTGGCCCACCAGGGTGAAGGCCCTGCGACATCTC
TCGCCAGCTCCGGCTCAGCCATGGCTGCGTCAGCAAGATCCTTGGCAGGTACTACGAGAC
TGGCAGCATCCGGCTGGAGTGATAGGGGGCTCCAAGCCAAGGTGGCCACCCCAAGGT
GGTGGAGAAGATTGGGGACTACAAACGCCAGAACCCTACCATGTTTGCCTGGGAGATCCG
AGACCGGCTCCTGGCTGAGGGCGTCTGTGACAATGACACTGTGCCAGTGTGAGTCCAT
TAATAGAATCATCCGACCAAAGTGCAGCAACCTTCAACCTCCCTATGGACAGTGCCT
GGCCACCAAGTCCCTGAGTCCCGGACACACGCTGATCCCAGCTCAGCTGTAACCTCCCC
GGAGTACCCAGTCCGATTCCCTGGGCTCCACCTACTCCATCAATGGGCTCCTGGGCAT
CGCTCAGCTGGCAGCGACAAGAGGAAAATGGATGACAGTGCAGGATAGCTGCCGACT
AAGCATTGACTCACAGAGCAGCAGCAGCGGACCCCGAAAGCACCTTCGCACGGATGCCTT
CAGCCAGCACCACTCGAGCCGCTCGAGTGCCCATTTGAGCGGCAGCACTACCCAGAGGC
CTATGCCTCCCCAGCCACACCAAGGGCAGCAGGGCCTCTACCCGCTGCCCTTGCTCAA
CAGCACCTGGACGACGGGAAGGCCACCCTGACCCCTTCCAACACGCCACTGGGGCGCAA
CCTCTCGACTCACCAGACCTACCCCGTGGTGGCAGATCCTCACTACCCTTCGCCATAAA
GCAGGAAACCCCGAGGTGTCCAGTTCTAGCTCCACCCCTTCTCTTTATCTAGCTCCGC
CTTTTTGGATCTGCAGCAAGTCCGGCTCCGGGTCCCGCCCTTCAATGCCTTTCCCATGC
TGCTCCGTGTACGGGCAGTTACGGGGCAGGCCCTCCTCTCAGGGCGAGAGATGGTGGG
CCCCACCTGCCCGGATACCCACCCACATCCCACAGCGGACAGGGCAGCTATGCCTC
CTCTGCCATCGCAGGCATGGTGGCAGGAAGTGAATACTCTGGCAATGCCTATGGCCACAC
CCCTACTCCTCTACAGCGAGGCTGGCGCTTCCCAACTCCAGCTTGCTGAGTTCCTCC
ATATTATTACAGTTCCACATCAAGGCCGAGTGCACCGCCCACTGCCACGGCCTTTGA
CCATCTGTAGTTGCCATGGGGACAGTGGGAGCGACTGAGCAACAGGAGGACTCAGCCTGG
GACAGGCCCCAGAGAGTACACAAAGGAATCTTTATTTATTACATGAAAAATAACCACAA
GTCCAGCATTGCGGCACACTCCCTGTGTGGTTAATTTAATGAACCATGAAAGACAGGATG
ACCTTGGACAAGGCCAACTGTCCTCAAGACTCCTTAATGAGGGGCAGGAGTCCCAGGG
AAAGAGAACCATGCCATGCTGAAAAAGACAAAATTGAAGAAGAAATGTAGCCCCAGCCG
GTACCCACCAAAGGAGAGAAGAAGCAATAGCCGAGGAAGTTGGGGGATGGCGAATGGTT
CCTGCCCGGGCCCAAGGGGTGCACAGGGCACCTCCATGGCTCCATTATTACACAACCTCT
AGCAATTATGGACCATAAGCACTTCCCTCCAGCCACAAGTACAGCCTGGTGGCAGGGC
TCTCCTACCAGCCACCCAGGGAGTCCCTCCCTCAGCCTCCCGCTGCCCCACACGGAG
GCTCTGGCTGTCTCTTCTCCACTCCATTTGCTTGGCTTTTCTACACCTCCCTCTTG
GCATGGGCTGAGGGCTGGAGCGAGTCCCTCAGAAATCCACCAGGCTGTCAGTGCCTC
TTTTGCCTGCTGCTGTGAAGGTATAGCACACCCAGGTCCTCCTGCAGTGGGCATCCC
CTTGGCAGCTGCCGTGAGCCAGGCCAGCCAGGGAGCTTAAAACAGACATTCCACAGGG
CCTGGGCCCTTGGGAGGTGAGGTGTGGTGTGCGGCTTACCCAGGGCAGAACAAAGCAGA
ATCGCAGGAAACCGCTTCCCTTCTGACAGCTCCTGCCAAGCCAAATGTGCTTCTGC
AGCTCACGCCACCAGCTACTGAAGGGACCCAAGGCACCCCTGAAGCCAGCGATAGAGG
GTCCCTCTCTGCTCCCCAGCAGCTCCTGCCCCAAAGCCTGACTGTATATACTGTCAATG
AAACTTTGTTGGGTCAAGCTTCTTTCTACCCCCAGACTTTGGCCTCTGAGTGAA
ATGTCTCTTTTGCCTGTGGGGCTTCTCCTTGATGCTTCTTTCTTTTTTAAAGACA
ACCTGCCATTACCACATGACTCAATAAACCAATTGCTCTTCAAAAAAAAAAAAAAAAAA
```

| | |
|-------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_003466 unedited NNAATAGCCGTACAGAATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAG GCTTCAGAAGGAGAGAGACACCGGGCCAGGGCACCCCTCGCGGGCGGACCCAAGCAGTGA GGGCCTGCAGCCGGCCGGCCAGGGCAGCGGCAGGGCGGGCCCGGACCTACGGGAGGAAGC CCCGAGCCCTCGGCGGGCTGCGAGCGACTCCCCGGCGATGCCTCACAACCTCCATCAGATC TGGCCATGGAGGGCTGAACCAGCTGGGAGGGCCCTTTGTGAATGGCAGACCTCTGCCGGA AGTGGTCCGCGCAGCGCATCGTAGACCTGGCCACCAGGGTGTAAAGGCCCTGCGACATCTC TCGCCAGCTCCGCGTCAGCCATGGCTGCGTCAGCAAGATCCTTGGCAGGTACTACGAGAC TGGCAGCATCCGGCCTGGAGTGATAGGGGGCTCCAAGCCCAAGGTGGCCACCCCAAGGT GGTGGAGAAGATTGGGGACTACAAACGCCAGAACCCTACCATGTTTGCCTGGGAGATCCG AGACCGGCTCCTGGCTGAGGGCGTCTGTGACAATGACTGTGCCAGTGTGAGATCCAT TAATAGAATCATCCGGACAAAGTGCAGCAACCATTCAACCTCCCTATGGACAGCTGCGT GGCCACCAAGTCCCTGAGTCCCGACACACGCTGATCCCAGCTCAGCTGTAACCTCCCC CGGAGTACCCCCAGTTCGGATTCCCTGGGCTCCACCTACTTCATCAATGGGCTCCTGGG CATCGCTCAACCTGGGCAGCGCAAGAGGAAAAGTTGACAGTGGTCAGGATAACTGCCCA TAAACATTGGCTTCCAGAACAGCAGCAACGGACCCCGAAA |
| Restriction Sites: | Please inquire |
| ACCN: | NM_003466 |
| Insert Size: | 2698 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_003466.2 , NP_003457.1 |
| RefSeq Size: | 2707 bp |
| RefSeq ORF: | 1353 bp |
| Locus ID: | 7849 |
| UniProt ID: | Q06710 |
| Cytogenetics: | 2q14.1 |
| Protein Families: | Druggable Genome, Transcription Factors |
| Protein Pathways: | Pathways in cancer, Thyroid cancer |

Gene Summary:

This gene encodes a member of the paired box (PAX) family of transcription factors. Members of this gene family typically encode proteins that contain a paired box domain, an octapeptide, and a paired-type homeodomain. This nuclear protein is involved in thyroid follicular cell development and expression of thyroid-specific genes. Mutations in this gene have been associated with thyroid dysgenesis, thyroid follicular carcinomas and atypical follicular thyroid adenomas. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Mar 2010]

Transcript Variant: This variant (PAX8A) represents the longest transcript and encodes the longest isoform (PAX8A).