## S2 Table

Multiple alignment matrix for chicken rRNA gene cluster boundaries search using annotated fragments of ribosomal clusters of *Homo sapiens*, *Rattus norvegicus*, *Mus musculus*, *Xenopus laevis* and *Crocodylus porosus*.

|                   | 1 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 |
|-------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| **Crocodylus porosus EU27191** | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 |
| **Xenopus laevis X02995** | ACTGACACGC | TGGCTCTTCC | CTATTAACAC | TAAGGACAC | TATAAAGAGA | CCCTTCTGC | TTAAGGCTTG | TTTGCTTGG | TGGCTTGGTC | CAGGCTATTC | TTGGTCTGCTG |
| **Mus musculus NR_046233** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Rattus norvegicus NR_046239** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Gallus gallus KT445934.2** | | | | | | | | | | | |

|                   | 1 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 |
|-------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| **Crocodylus porosus EU27191** | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 |
| **Xenopus laevis X02995** | ACTGACACGC | TGGCTCTTCC | CTATTAACAC | TAAGGACAC | TATAAAGAGA | CCCTTCTGC | TTAAGGCTTG | TTTGCTTGG | TGGCTTGGTC | CAGGCTATTC | TTGGTCTGCTG |
| **Mus musculus NR_046233** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Rattus norvegicus NR_046239** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Gallus gallus KT445934.2** | | | | | | | | | | | |

|                   | 1 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 |
|-------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| **Crocodylus porosus EU27191** | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 |
| **Xenopus laevis X02995** | ACTGACACGC | TGGCTCTTCC | CTATTAACAC | TAAGGACAC | TATAAAGAGA | CCCTTCTGC | TTAAGGCTTG | TTTGCTTGG | TGGCTTGGTC | CAGGCTATTC | TTGGTCTGCTG |
| **Mus musculus NR_046233** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Rattus norvegicus NR_046239** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Gallus gallus KT445934.2** | | | | | | | | | | | |

|                   | 1 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 | 1111111111 |
|-------------------|---|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| **Crocodylus porosus EU27191** | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 | 1234567890 |
| **Xenopus laevis X02995** | ACTGACACGC | TGGCTCTTCC | CTATTAACAC | TAAGGACAC | TATAAAGAGA | CCCTTCTGC | TTAAGGCTTG | TTTGCTTGG | TGGCTTGGTC | CAGGCTATTC | TTGGTCTGCTG |
| **Mus musculus NR_046233** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Rattus norvegicus NR_046239** | TCGGACGCAG | TTTTTTTTTC | GGAGGTGGAG | GTCCGAGTAA | CTTCAGTTCT | GTCTGGTGTT | TCCAAGTGCT | CTGACTGCGT | GGCTCCCGAG | GCCTCAGGTT | TGGCAGCTCC |
| **Gallus gallus KT445934.2** | | | | | | | | | | | |
| Species                        | Sequence                                                                 |
|-------------------------------|--------------------------------------------------------------------------|
| Rattus norvegicus NR_046239  | TGGTGCTGCCG CTGGGACGGC CTGGTGCTCC GCTGCTGCCCCCTTGGCCGGT GCCGGGTGTCG |
| Homo sapiens U13369            | CTGGGCTGCCG CTGGGACGGC CTGGTGCTCC GCTGCTGCCCCCTTGGCCGGT GCCGGGTGTCG |
| Mus musculus NR_046233         | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Gallus gallus KT45934.2       | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Crocodylus porosus EU727191   | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Xenopus laevis X02995          | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Homo sapiens U13369            | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Mus musculus NR_046233         | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Rattus norvegicus NR_046239  | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Gallus gallus KT45934.2       | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Crocodylus porosus EU727191   | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Xenopus laevis X02995          | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Homo sapiens U13369            | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Mus musculus NR_046233         | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Rattus norvegicus NR_046239  | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Gallus gallus KT45934.2       | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Crocodylus porosus EU727191   | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Xenopus laevis X02995          | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Homo sapiens U13369            | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Mus musculus NR_046233         | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Rattus norvegicus NR_046239  | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Gallus gallus KT45934.2       | GCTTTGAGAG GCCTGGCTTT CGGGGGGGAC CGGTTGCAGG GTCTCCCCTG TCCGCGGATG CTCAGAATGC CCTTGGAAGA GAACCTTCCT GTTGCCGCAG ACCCCCCCGC |
| Species               | Accession | Sequence                                                                 |
|----------------------|-----------|--------------------------------------------------------------------------|
| Rattus norvegicus    | NR_046239 | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Crocodylus porosus   | EU727191  | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Homo sapiens         | U13369    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Mus musculus         | NR_046233 | AGGCGACGGT GGGCTCCCGG GTCCCCACCC GTCTTCCCGT GCCTCACCCG TGCCTTCCGT CGCGTGCGTC CCTCTCGCTC GCGTCCACGA CTTTGGCCGC TCCCGCGACG |
| Xenopus laevis       | X02995    | CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Gallus gallus        | KT445934.2| CCTCCTCCGC TTCCCCCTCG ACGGGGTTGG GGGGGAGAAG CGAGGGTTCC GCCGGCCACC GCGGTGGTGG CCGAGTGCGG CTCGTCGCCT ACTGTGGCCC GCGCCTCCCC |
| Species            | Accession | Sequence                                                                 |
|--------------------|-----------|--------------------------------------------------------------------------|
| Gallus_gallus      | KT445934.2| AGGCCGGCTC CCGCGCCGCC AGGGCGAAGG CGAGAGAGAG AGGGAGACGA GAAGGGCACG GGCCGGTCTG CCGGCACCCG AACGTAGGAT GGCCGGGGGC GTCCCCGGCG |
| Homo_sapiens       | U13369    | TGTCTGTGGC GGTGGGATCC CGCGGCCGTG TTTTCCTGGT GGCCCGGCCG TGCCTGAGGT TTCTCCCCGA GCCGCCGCCT CTGCGGGCTC CCGGGTGCCC TTGCCCTCGC |
| Mus_musculus       | NR_046233 | GACGCCCGAG CGGTCTCTCG GTCCCTTGTG AGGACCCCCT TCCGGGAGGG GCCCGTTTCG GCCGCCCTTG CCGTCGTCGC CGGCCCTCGT TCTGCTGTGT CGTTCCCCCC |
| Xenopus_laevis     | X02995    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Rattus norvegicus  | NR_046239 | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Gallus_gallus      | KT445934.2| CGCTTCGGTT TGTCCGTCGC TCCTCATCCC GCAGCTCTGT CCTGGGCTAA GGCGGTTTTG CAGGCGAGCA GCGAAAAAAA GCCGGAGAAG GCGAGAGAGA GGCAAGAAGC |
| Rattus norvegicus  | NR_046239 | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Gallus_gallus      | KT445934.2| ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Crocodile          | porosus   | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Xenopus_laevis     | X02995    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Mus_musculus       | NR_046233 | GGGGCCGTCG TGTTTCGGGT CGGCTCGGCG CTGCAGGTGT GGTGGGACTG CTCAGGGGAG TGGTGCAGTG TGATTCCCGC CGGTTTTGCC TCGCGTGCCC TGACCGGTCC |
| Homo_sapiens       | U13369    | GGTCCCCGGC CCTCGCCCGT CTGTGCCCTC TTCCCCGCCC GCCGCCCGCC GATCCTCTTC TTCCCCCCGA GCGGCTCACC GGCTTCACGT CCGTTGGTGG CCCCGCCTGG |
| Mus_musculus       | NR_046233 | TCCCCGCTCG CCGCAGCCGG TCTTTTTTCC TCTCTCCCCC CCTCTCCTCT GACTGACCCG TGGCCGTGCT GTCGGACCCC CCGCATGGGG GCGGCCGGGC ACGTACGCGT |
| Xenopus_laevis     | X02995    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Rattus norvegicus  | NR_046239 | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Gallus_gallus      | KT445934.2| ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Crocodile          | porosus   | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Xenopus_laevis     | X02995    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Mus_musculus       | NR_046233 | GGGAAAGCGT CCCACGGTGG GGGCGCGCCG GTCTCCCGGA GCGGGACCGG GTCGGAGGAT GGACGAGAAT CACGAGCGAC GGTGGTGGTG GCGTGTCGGG TTCGTGGCTG |
| Homo_sapiens       | U13369    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Mus_musculus       | NR_046233 | GCGACGTCGG ACGTGGGGAC CCACTGCCGC TCGGGGGTCT TCGTCGGTAG GCATCGGTGT GTCGGCATCG GTCTCTCTCT CGTGTCGGTG TCGCCTCCTC GGGCTCCCGG |
| Xenopus_laevis     | X02995    | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Rattus norvegicus  | NR_046239 | ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Gallus_gallus      | KT445934.2| ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- ---------- |
| Species                        | Accession        | Sequence                                                                 |
|-------------------------------|------------------|-------------------------------------------------------------------------|
| Gallus gallus                | KT445934.2       | TCCGGTGTTC AGGCACGGGC GGCCTCCTCT CCAGTTCGCT TCCCGTCGTT CGCGAGGTGA GGCGCTCGCC CGCTTGGGCC GAGGGCGGCG GCGGCGGCGG CTTCGGGGCG |
| Rattus norvegicus            | NR_046239        | GCGCGTGTCC CGGTGTGGCG GTGGGGGCTC CGGTCGATGT CTACCTCCCT CTCCCCGAGG TCTCAGGCCT TCTCCGCGCG GGCTCTCGGC CCTCCCCTCG TTCCTCCCTC |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Xenopus laevis               | X02995           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Rattus norvegicus            | NR_046239        | GCGCGTGTCC CGGTGTGGCG GTGGGGGCTC CGGTCGATGT CTACCTCCCT CTCCCCGAGG TCTCAGGCCT TCTCCGCGCG GGCTCTCGGC CCTCCCCTCG TTCCTCCCTC |
| Crocodylus porosus           | EU727191         | CCCCCACCCC CTTTCTCCCA CCGATCGATG AGGCCACTCG GGTCGCGTCG GAGAGGGCCC CCGGCGGGCC GGCGCTCTGC GCTCCCTGTC CCAGGGAAGC CGCGGCGGCG |
| Rattus norvegicus            | NR_046239        | GGGGGCTGGC CGCTGTCCGG TCTCTCCTGC CCGACCCCCG TTGGCGTGGT CTTCTCTCGC CGGCTTCGCG GACTCCTGGC TTCGCCCGGA GGGTCAGGGG GCTTCCCGGT |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Xenopus laevis               | X02995           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Rattus norvegicus            | NR_046239        | GGGGGCTGGC CGCTGTCCGG TCTCTCCTGC CCGACCCCCG TTGGCGTGGT CTTCTCTCGC CGGCTTCGCG GACTCCTGGC TTCGCCCGGA GGGTCAGGGG GCTTCCCGGT |
| Human                        | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Xenopus laevis               | X02995           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Rattus norvegicus            | NR_046239        | GGGGGCTGGC CGCTGTCCGG TCTCTCCTGC CCGACCCCCG TTGGCGTGGT CTTCTCTCGC CGGCTTCGCG GACTCCTGGC TTCGCCCGGA GGGTCAGGGG GCTTCCCGGT |
| Crocodylus porosus           | EU727191         | CCCCCACCCC CTTTCTCCCA CCGATCGATG AGGCCACTCG GGTCGCGTCG GAGAGGGCCC CCGGCGGGCC GGCGCTCTGC GCTCCCTGTC CCAGGGAAGC CGCGGCGGCG |
| Rattus norvegicus            | NR_046239        | GGGGGCTGGC CGCTGTCCGG TCTCTCCTGC CCGACCCCCG TTGGCGTGGT CTTCTCTCGC CGGCTTCGCG GACTCCTGGC TTCGCCCGGA GGGTCAGGGG GCTTCCCGGT |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Xenopus laevis               | X02995           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Homo sapiens                 | U13369           | GCCGCGGGGA TCGCCGAGGG CCGGTCGGCC GCCCCGGGTG CCCCGCGGTG CCGCCGGCGG CGGTGAGGCC CCGCGCGTGT GTCCCGGCTG CGGTCGGCCG CGCTCGAGGG |
| Mus musculus                | NR_046233        | GCCGAGGTGC GTCTGGGGGG CTCGTCCGGC CCTGTCGTCC GTCGGGAAGG CGCGTGTTGG GGCCTGCCGG AGTGCCGAGG TGGGTACCCT GGCGGTGGGA TTAACCCCGC |
| Species                | Accession | Sequence                                      |
|------------------------|-----------|-----------------------------------------------|
| *Rattus norvegicus*    | NR_046239| GCGGGCGCCG TCCTGCTTCCG GCTCAGGCTG CGTCACTGCC |
| *Homo sapiens*         | U13369    | GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Gallus gallus*        | KT45934.2| AAGCCGCGTC CTCTCCTTCG TCCCCGCCGC CGTCGCCTCC |
| *Crocdylus porosus*    | EU72191   | GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Xenopus laevis*       | X02995    | GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Mus musculus*         | NR_046233| GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Homo sapiens*         | U13369    | GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Rattus norvegicus*    | NR_046239| GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |
| *Gallus gallus*        | KT45934.2| GCCAGCCGGG GACGGCCGGG AGAGCGCGG GGCGACGCC |

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Xenopus laevis X02995

Crocodylus porosus EU727191

Mus musculus NR_046233

Homo sapiens U13369

Rattus norvegicus NR_046239

Gallus gallus KT445934.2

Xenopus laevis X02995

Crocodylus porosus EU727191

Mus musculus NR_046233

Homo sapiens U13369

Rattus norvegicus NR_046239

Gallus gallus KT445934.2
| Species                        | Accession   | Sequence Information                                                                 |
|-------------------------------|-------------|--------------------------------------------------------------------------------------|
| Gallus gallus                 | KT445934.2 | Gallus_gallus_KT445934.2: CCGGGCCCCTC CCGGCCCTTC CCGCGCCCTC CCGCGCCCTC CCGCGCCCTC |
| Rattus norvegicus             | NR_046239  | Rattus_norvegicus_NR_046239: AAGGGACCGG CTGCTGGCTG ATTCGCCGCT CCGCGCCCTC       |
| Homo sapiens                 | U13369     | Homo_sapiens_U13369: AAGGGACCGG CTGCTGGCTG ATTCGCCGCT CCGCGCCCTC               |
| Mus musculus                 | NR_046233  | Mus_musculus_NR_046233: AAGGGACCGG CTGCTGGCTG ATTCGCCGCT CCGCGCCCTC           |
| Xenopus laevis               | X02995     | Xenopus_laevis_X02995: AAGGGACCGG CTGCTGGCTG ATTCGCCGCT CCGCGCCCTC           |
| Crocodylus porosus           | EU727191   | Crocodylus_porosus_EU727191: AAGGGACCGG CTGCTGGCTG ATTCGCCGCT CCGCGCCCTC       |

Note: The sequences are abbreviated for clarity, showing only a part of the full sequence information.
| Species                        | Accession     | Sequence                                                                 |
|-------------------------------|---------------|--------------------------------------------------------------------------|
| Gallus gallus KT445934.2     |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CCGGGCGCCC TGGAACGGGT TCGCCCCGAG AGAGGGGCCC GCGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Rattus norvegicus NR_046239  |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC AGTTCCGGCG GCGTCCGGTG |
| Homo sapiens U13369           |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Mus musculus NR_046233       |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Crocodylus porosus EU727191  |               | CAGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGGGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Xenopus laevis X02995         |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Mus musculus NR_046233       |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Homo sapiens U13369           |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |
| Rattus norvegicus NR_046239  |               | CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG |

**Alignment:**
- **Species:** Gallus gallus, Rattus norvegicus, Homo sapiens, Mus musculus, Crocodylus porosus
- **Accession:** KT445934.2, NR_046239, U13369, NR_046233, EU727191
- **Sequence:**
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CCGGGCGCCC TGGAACGGGT TCGCCCCGAG AGAGGGGCCC GCGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC AGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CAGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGGGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
  - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG

**Alignment Details:**
- **Species:** Gallus gallus, Rattus norvegicus, Homo sapiens, Mus musculus, Crocodylus porosus
- **Accession:** KT445934.2, NR_046239, U13369, NR_046233, EU727191
- **Sequence:**
  - CCGGGAGAGA CGGGCGGAGA CGGGCGGAGA CGGGCGGAGA CGGGCGGAGA CGGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA
  - GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA GTGGCGGAGA

**Additional Details:**
- **Alignment:**
  - **Species:** Gallus gallus, Rattus norvegicus, Homo sapiens, Mus musculus, Crocodylus porosus
  - **Accession:** KT445934.2, NR_046239, U13369, NR_046233, EU727191
  - **Sequence:**
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CCGGGCGCCC TGGAACGGGT TCGCCCCGAG AGAGGGGCCC GCGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC AGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CAGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGGGCCC TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG
    - CCGGGAGAGT TCTCTTTTCT TTGTGAAGGG CAGGGCGCCT TGGAATGGGT TCGCCCCGAG AGAGGGGCCC GTGCC-TTGG AAAGCGTCGC GGTTCCGGCG GCGTCCGGTG

**Note:** The sequences are provided in FASTA format for each species and accession, indicating the start and end positions of genomic regions. The alignment suggests a comparison of nucleotide sequences across different species, likely for comparative genomics or evolutionary analysis.
| Species                     | Accession       | Sequence                                                                 |
|-----------------------------|-----------------|--------------------------------------------------------------------------|
| Gallus gallus              | KT445934.2      | `---CCAGGGG---G GGGCCGCGG GGGCCGGAGG GGGCCGGAC G---G---ACT GGGCGCCGTC`     |
| Rattus norvegicus NR.046239| --G              | `---G GGGCCGCGG GGGCCGGACT GC---G---ACT GGGCGCCGTC`                        |
| Crocodylus porosus EU727191| --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Xenopus laevis X02995      | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Mus musculus NR.046233     | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Homo sapiens Ui3369        | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Gallus gallus KT445934.2   | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Crocodylus porosus EU727191| --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Xenopus laevis X02995      | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Mus musculus NR.046233     | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Homo sapiens Ui3369        | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Rattus norvegicus NR.046239| --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Crocodylus porosus EU727191| --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Xenopus laevis X02995      | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Mus musculus NR.046233     | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Homo sapiens Ui3369        | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Rattus norvegicus NR.046239| --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |
| Gallus gallus KT445934.2   | --G              | `---G GGGCCGCGG GGGCCGGAC G---G---ACT GGGCGCCGTC`                        |

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| Species                    | Accession | Sequence                                      |
|---------------------------|-----------|-----------------------------------------------|
| Crocodylus porosus        | EU727191  | TAGGGGGAAA TGGTCTGGTT ACCCAGTTGC AGCAGGTTTG TGCCAGGTAC CTCCACGTGG TTCTCACTGG GTATCAAAGG CCTGTTGATA GCTCAACCTT GGTACAATGC |
| Xenopus laevis            | X02995    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Mus musculus NR           | 046239    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Homo sapiens U13369       |           | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Rattus norvegicus NR      | 046239    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Gallus gallus KT          | T445934.2 | GGCCGGCGCC TAGCAGCCGG CTTAGAACTG GTGCGGACCA GGGGAATCCG ACTGTTTAAT TAAAACAAAG CATCGCGAAG GCCCGCGGCG GGTGTTGACG CGATGTGATT |
| Crocodylus porosus        | EU727191  | AGCCGGCACC TACGGCTGTA CTAGAAGCT AAGCTTCTGA GCTGCTGCTGA AAGTCTATCA TACCAACAGG CTGCCGCTAG GGTGTTGACG CGATGTGATT |
| Xenopus laevis            | X02995    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Mus musculus NR           | 046239    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Homo sapiens U13369       |           | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Rattus norvegicus NR      | 046239    | TCTGCCCAGT GCTCTGAATG TCAAAGTGAA GAAATTCAAT GAAGCGCGGG TAAACGGCGG GAGTAACTAT GACTCTCTTA A--------- ---------- ---------- |
| Gallus gallus KT          | T445934.2 | GGCCGGCGCC TAGCAGCCGG CTTAGAACTG GTGCGGACCA GGGGAATCCG ACTGTTTAAT TAAAACAAAG CATCGCGAAG GCCCGCGGCG GGTGTTGACG CGATGTGATT |
Gallus_gallus_KT445934.2

Rattus_norvegicus_NR_046239

Homo_sapiens_U13369

Mus_musculus_NR_046233

Xenopus_laevis_X02995

Crocodylus_porosus_EU727191

Crocodylus_porosus_EU727191

Gallus_gallus_KT445934.2

Rattus_norvegicus_NR_046239

Gallus_gallus_KT445934.2

Xenopus_laevis_X02995

Mus_musculus_NR_046233

Crocodylus_porosus_EU727191

Gallus_gallus_KT445934.2

Xenopus_laevis_X02995

Mus_musculus_NR_046233

Rattus_norvegicus_NR_046239

Gallus_gallus_KT445934.2

Xenopus_laevis_X02995

Mus_musculus_NR_046233

Rattus_norvegicus_NR_046239

Gallus_gallus_KT445934.2

Xenopus_laevis_X02995

Mus_musculus_NR_046233

Rattus_norvegicus_NR_046239

Gallus_gallus_KT445934.2

Xenopus_laevis_X02995

Mus_musculus_NR_046233

Rattus_norvegicus_NR_046239

Gallus_gallus_KT445934.2
| Species                  | Accession              | Sequence                                                                 |
|-------------------------|------------------------|--------------------------------------------------------------------------|
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |
| Homo sapiens            | NR_046233              | GCTCCCTCCA TCCCCGGCC CGGCTCCCTG ATGGGATGAT CGGCCCCGCG CCGGCGCGC GCGGCCGCG |
| Xenopus laevis          | X02995                 | GCTCCCTTTTT CCGGGGGGG GAGGAGGAGG GCGGGGGGAG GGGGGAGGAC CTGGCCCTCC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Crocodylus porosus      | EU727191               | GGGCCGCGGC GCCGGCTCCG CGGCTCCGAC CGGCCCAGCC CCGGCGACG CAGGGGGGAC GCAGGGAGG |
| Xenopus laevis          | X02995                 | GGGCCGCGGC GCCGGCTCCG CGGCTCCGAC CGGCCCAGCC CCGGCGACG CAGGGGGGAC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Homo sapiens            | U13369                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |
| Homo sapiens            | NR_046233              | GCTCCCTCCA TCCCCGGCC CGGCTCCCTG ATGGGATGAT CGGCCCCGCG CCGGCGCGC GCGGCCGCG |
| Xenopus laevis          | X02995                 | GCTCCCTTTTT CCGGGGGGG GAGGAGGAGG GCGGGGGGAG GGGGGAGGAC CTGGCCCTCC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |
| Homo sapiens            | NR_046233              | GCTCCCTCCA TCCCCGGCC CGGCTCCCTG ATGGGATGAT CGGCCCCGCG CCGGCGCGC GCGGCCGCG |
| Xenopus laevis          | X02995                 | GCTCCCTTTTT CCGGGGGGG GAGGAGGAGG GCGGGGGGAG GGGGGAGGAC CTGGCCCTCC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |
| Homo sapiens            | NR_046233              | GCTCCCTCCA TCCCCGGCC CGGCTCCCTG ATGGGATGAT CGGCCCCGCG CCGGCGCGC GCGGCCGCG |
| Xenopus laevis          | X02995                 | GCTCCCTTTTT CCGGGGGGG GAGGAGGAGG GCGGGGGGAG GGGGGAGGAC CTGGCCCTCC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |
| Homo sapiens            | NR_046233              | GCTCCCTCCA TCCCCGGCC CGGCTCCCTG ATGGGATGAT CGGCCCCGCG CCGGCGCGC GCGGCCGCG |
| Xenopus laevis          | X02995                 | GCTCCCTTTTT CCGGGGGGG GAGGAGGAGG GCGGGGGGAG GGGGGAGGAC CTGGCCCTCC GCAGGGAGG |
| Mus musculus NR         | 046233                 | CTCGCCCTCC CCGCCGACT GGGGGAGGAC ATGCGGTCTT CCGGCGCCT CGCGGCCGAC GCGGCCGAC |
| Rattus norvegicus NR    | 046239                 | GAGGGGGGAC CTGGGGAGGAC GGGGGAGGAC CGCCTTCTCT CCGGCGACG CTGGGGGGAC GCAGGGAGG |
| Gallus gallus           | KT445934.2             | TCCCCGCGCC GCTCCGTTTG TCTGCTGGCT TCTGCTCTCT TCTTCGCCGG CCGGCGCCG GCGGCCGCG |

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