Signal peptide *Hormone*

```
                M  P  E  A  S  V  P  A  C  F  L  C  L  L  A  L  S  S  A  C  Y  I  Q  N  C
Vasotocin       ATGCCTGAAGCTTCGGTCCCTGCTTGTTTCCTGTGCCTTCTTGCCCTCTCCTCAGCCTGCTACATCCAGAACTGC
                *** *  *     *  *  * ** *** ** * ******** ** *** * ***** *********** ******
Mesotocin       ATGACCTACAGCACCCTGGCCGCGTGTCTCTTCTGCCTTCTGGCTCTCACTTCAGCTTGCTACATCCAAAACTGC
                M  T  Y  S  T  L  A  A  C  L  F  C  L  L  A  L  T  S  A  C  Y  I  Q  N  C
```

Neurophysin

```
                P  R  G  G  K  R  S  Y  P  D  T     E  L  R  Q
                CCCAGAGGGGGCAAGAGGTCCTACCCCGACAC---AGAACTCCGACAGgtgcagtatcttttatcctt.......
                ****  ** ** ***** **       ****     **  ** *  ****          *  ***
                CCCATTGGAGGAAAGAGATCGGTGATGGACATCATGGACATCAGGAAGgtaagagtgtcgctgccctg.......
                P  I  G  G  K  R  S  V  M  D  I  M  D  I  R  K

                                      C  M  Q  C  G  P  G  N  R  G  N  C  F  G  P  N  I
                ...atcatgttgttcccttgcagTGCATGCAGTGTGGGCCGGGAAACAGAGGCAACTGCTTCGGGCCGAACATTT
                      *         *  *  **** ** *  ********* **** * ***  * ** ** ***** ***** *
                ...tcccaacccaatctctttagTGTATCCCTTGTGGGCCGAGAAATAAAGGACATTGTTTTGGGCCAAACATCT
                                      C  I  P  C  G  P  R  N  K  G  H  C  F  G  P  N  I

C  C  G  E  D  M  G  C  Y  I  G  T  P  E  T  L  R  C  V  E  E  N  F  V  P
GCTGCGGAGAAGATATGGGGTGTTACATCGGCACCCCCGAGACCCTCCGCTGTGTAGAAGAGAACTTCGTGCCGT
* ** ** ** **  **** ** *** * ** *** * *****  *  * **    ******** * * * ** *
GTTGTGGGGAGGAACTGGGTTGCTACGTTGGGACCTCGGAGACGTTAAGGTGCCAGGAAGAGAATTACCTTCCTT
C  C  G  E  E  L  G  C  Y  V  G  T  S  E  T  L  R  C  Q  E  E  N  Y  L  P

S  P  C  E  A  G  G  R  P  C  S     T  G  G  R  C  A  A  P  G  I  C  C  N
CCCCTTGTGAAGCCGGGGGGAGACCCTGCAG---TACAGGCGGAAGGTGTGCAGCCCCCGGAATCTGCTGCAATG
* ** *****  * *** * * *** **  *    *  ** ****  ** ** *** * ** ************
CTCCATGTGAGTCGGGGAGAAAACCTTGTGGGAACAATGGAGGAAACTGCGCCGCCTCTGGCATCTGCTGCAATC
S  P  C  E  S  G  R  K  P  C  G  N  N  G  G  N  C  A  A  S  G  I  C  C  N

D                                                   E  S  C  S  L  D  S
ACGgtaatgagcc-ccagtaaagc..........tttgtttcattgcatttgcagAGAGTTGCAGTTTGGACTCG
******* **    ** **   *             *   *  **** ******** ****   ****  **
ACGgtaaggaatggcctgttctg-..........cccaatctgtatcatt-gcagAGAGCTGCACAGTGGATCCG
H                                                   E  S  C  T  V  D  P
```

Neurophysin

Sequential Arg residues N-glycosylation site

```
A  C  L  D  D  E  S  E [R  R] R  A  P  L  E  K [N  T  T] V  M  D  G  S
GCCTGCCTGGACGACGAGAGCGAAAGGCGGCGGGCGCCACTGGAAAAGAACACGACCGTCATGGACGGCTCAG
*****   * * ***     **  *     *  *
GCCTGTGAGCAGGACT----CGGTATTTTCCTAG-------------------------------------
A  C  E  Q  D     S  V  F  S  *
```

Leucine-rich core segment

```
A  S  D  F [L  L  R  L] M  H  M  A  N  R  Q  Q  Q  A  K  H  Q  Y  Y  *
CCAGCGACTTTCTCCTGCGGCTTATGCACATGGCTAACAGACAACAGCAAGCCAAGCACCAATACTACTGA
-----------------------------------------------------------------------
```