

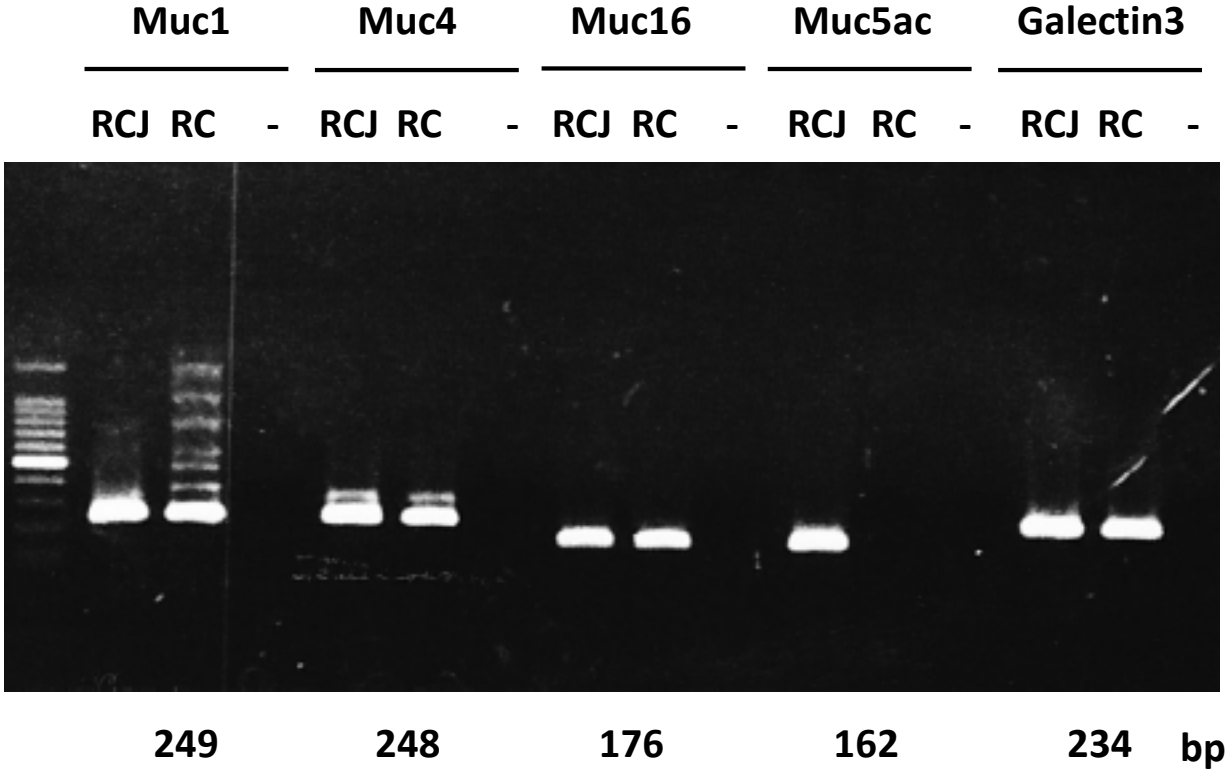
Supplementary Information

JBP485 promotes tear and mucin secretion in ocular surface epithelia

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Figure S1.

PCR for Muc1/Muc4/Muc16/Muc5ac and Galectin 3 in rabbit conjunctiva and cornea.



RCJ: Rabbit Conjunctiva
RC: Rabbit Cornea
-: Negative control

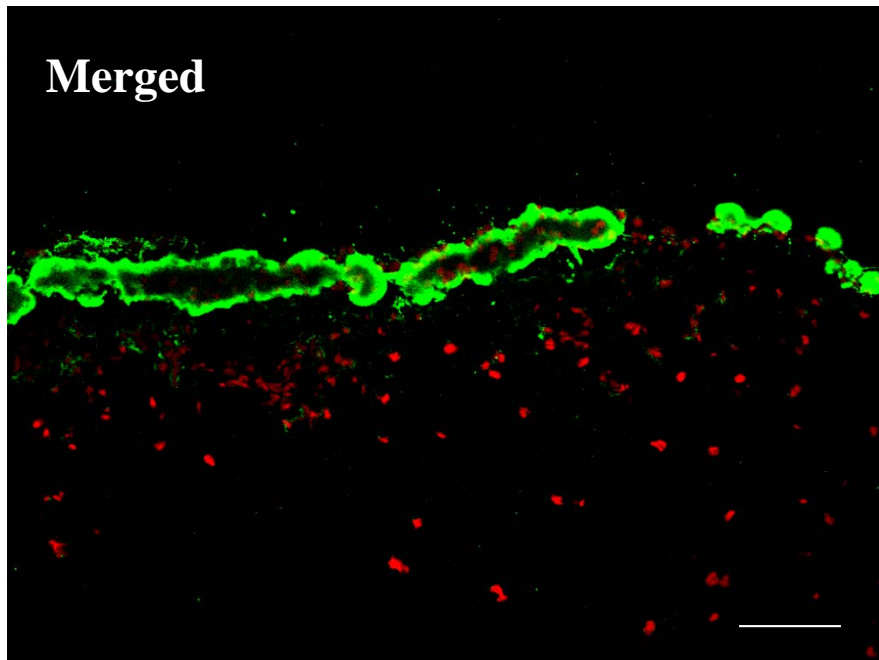
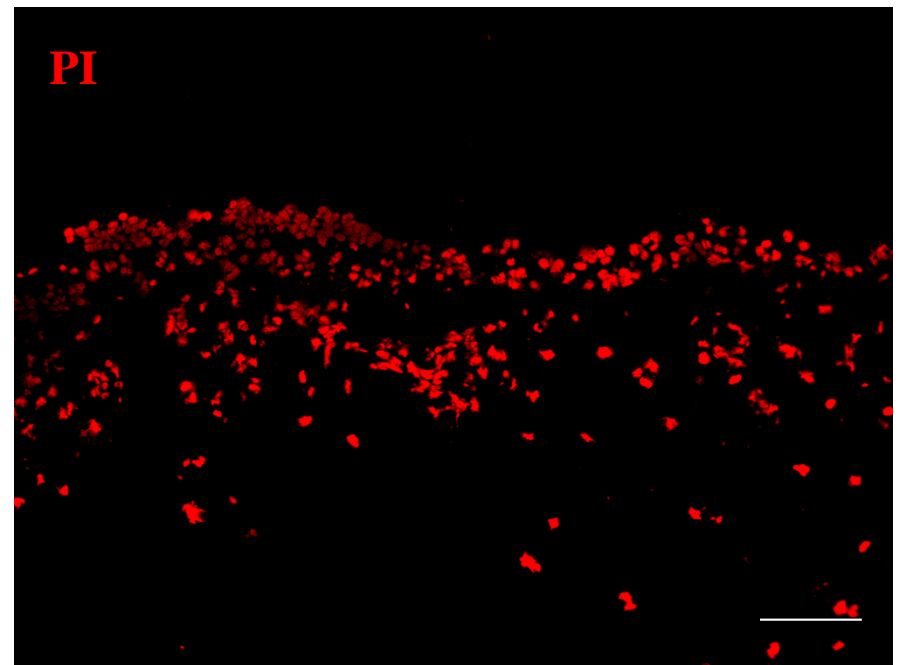
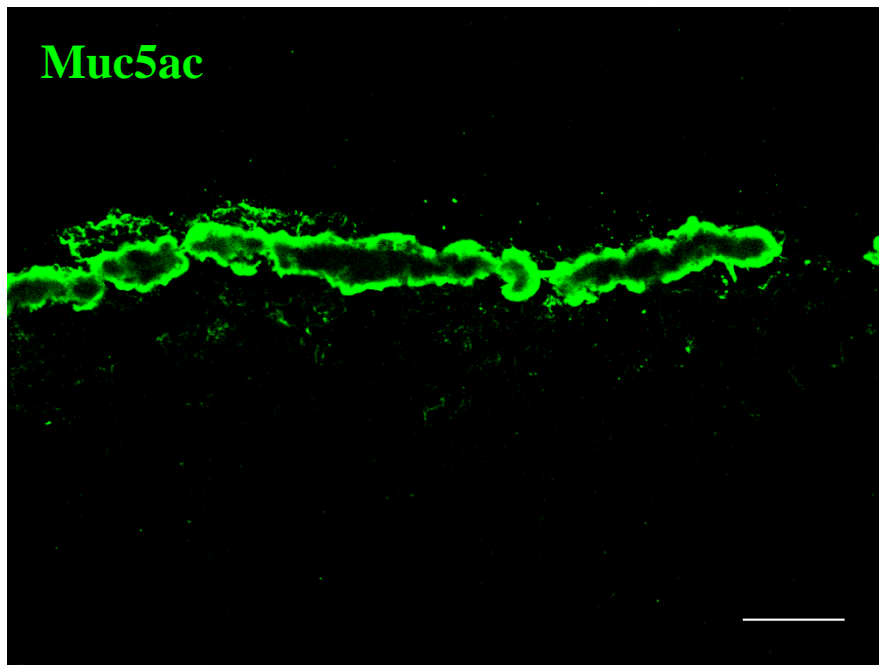


Figure S2.

Immunostaining for Muc5ac (green) in rabbit conjunctiva. Nuclei are counterstained with PI (red). Scale bars, 100 μ m.

Supplemental Table 1. Sequence for PCR

Muc1	F	GGAATGTTTCGGCACTGATT	
	R	GAACTCCAGACTGGGCAGAG	size 249
Muc4	F	GTGCCTTTCTCTGGAACAGC	
	R	CACCCTTGAGATGGGGTAGA	size 248
Muc16	F	TGCCAAATACCAAGTGGAAACA	
	R	GTCTCCGAGCCAAAGATGAG	size 176
Galectin3	F	ACTTTAACCCCGCTTCAAT	
	R	TTCCCAGCTTGTTGATTTCC	size 234
Muc5ac	F	CCCCAACGTCAAGAACAAC	
	R	TCAAACAGGCAGTTCGAGTG	size 162

F:Forward, R: Reverse

Supplemental Information 1.

CLUSTAL 2.1 multiple sequence alignment

Muc1

```
human      CGCTCCACCTCTCAAGCAGCCAGCGCCTGCCTGAATCTGTTCTGCCCCCTCCCACCCAT
rabbit     -----GCCACCAGCCCCG-----
```

..*** **

```
human      TTCACCACCACCATGACACCGGGCACCCAGTCTCCTTTCTTCTGCTGCTGCTCCTCACA
rabbit     -----TCCACGAAGTCACC-----
```

:**** *:***

```
human      GTGCTTACAGTTGTTACGGTTCTGGTCATGCAAGCTCTACCCAGGTGGAGAAAAGGAG
rabbit     -----TCTGCCCCGG-----
```

,, *

```
human      ACTTCGGCTACCCAGAGAAGTTCAGTGCCCAGCTCTACTGAGAAGAATGCTGTGAGTATG
rabbit     -----
```

```
human      ACCAGCAGCGTACTCTCCAGCCACAGCCCCGGTTCAGGCTCCTCCACCACTCAGGGACAG
rabbit     -----CCACCAGCCCCACGTGGTCTCAGCCACCAGCCCCGTCCAC
```

*..*****. *. * **..***** * * **

```
human      GATGTCACCTCTGCCCCGGCCACGGAACCAGTTTTCAGGTTTTCAGTCCACCTGGGGACAG
rabbit     GAAGTCACCTCTGCCCCAGCCACCAGCCCTGCATCAGACTTGGCCACCAGCCCTGTCCAT
```

..*** *****.***** ..**..**..**..* ..** ..** * ..**

```
human      GATGTCACCTCGGTCCCAGTCACCAGGCCAGCCCTGGG-----CTCCACCACCCCGCCA
rabbit     GAAGTCACCTCTGCCCCTGCCACCAGCCCCACCCACGTCGGTCTCAGCCACCTCCCCC
```

..*** * **..* ***** **..** ..** ..** ..** * **..

```
human      GCCCAGATGTCACCTCAGCCCCGGACAACAAGCCAGCCCCGGGCTCCACCGCCCCCCA
rabbit     GTTACGAAGTCACCTCGGCCCGGCCACCAGCCCCACGTCGGTCTCAGATACCAGCCCC
```

* *****:*****.*****.***.***. **..* *** **..**..**..**..

human GCCCAGGTGTACCTCGGCCCGGACACCAGGCCGCCCGGGCTCCACCGCCCCCA
rabbit GTCCATGAAGTACCTCGGCCCTGACCACCAGCCCCACGTGGTCTCAGCCACCAGCCCC
* *** * :***** * . ***** * . * *** ** . ** . ** . *** .

human GCCCATGGTGTACCTCGGCCCGGACAACAGGCCCGCCTGGGCTCCACCGCCCCTCCA
rabbit GTCCACGAAGTTACCTCTGCCCGGCCACCAGCCCCACGTGGTCTCAGCCACCAGCCCC
* *** * :** ***** ***** . ** . *** ** . * * ** ** . ** . ** . ** .

human GTCCACAATGTACCTCG-----GCCTCAGGCTCTGCATCAGGCTCAGTTCTACTCTG
rabbit GTCCATGAAGTACCTCGGCCCGGCCACCAGCCCCACGTGGTCTCAGCCACCTCCCC
***** . :***** ***** :* :* *

human GTGCACAACGGCACCTCTGCCAGGGCTACCACAACCCAG---CCAGCAAGAGCACTCCA
rabbit GTCCACGAAGTACCTCTGCCCTGGCCACCACCATGCCAGTTGGCACTCTGAGCACACCA
** *** . * * ***** . *** ***** * ***** * . :*****:***

human TTCTCAATCCCAGCCACCCTCTGATACTCCTACCACCCTTGCCAGCCATAGCACCAAG
rabbit TCTTCGGTTCCCAG---CCACACTGGCACTCCCACCACCCTTCCCAGCCCCAGCCACAG-
* ** . ***** *****:*** . ***** ***** ***** . *** . ** .

human ACTGATGCCAGTAGCACTCACCATAGCAGGTACCTCCTCTCACCTCCTCCAATCACAGC
rabbit -----CACGGGTTCTCCTGTCACCACTTCGACTCAGAGC
***** : ***** *****:* ** * . *** **

human ACTTCTCCCAGTTGTCTACTGGGTCTCTTTCTTTTCTGTCTTTTACATTTCAAAC
rabbit ACTGCTCCCAGGTGTCTGCTGGTTTGTCTTTCTTCTCCTGTCTTTTACATCACCAAC
*** ***** ***** . ***** * ***** ***** ***** ***** :* . ***

human CTCCAGTTTAATTCCTCTCTGGAAGATCCCAGCACCGACTACTACCAAGAGCTGCAGAGA
rabbit CTGCAGTTCAATTCCTCCCTGGAGGATCCAAGCAGCAAGTACTATCAAGAGCTGCAGAGG
** ***** ***** ** ***** . ***** . ***** * . * ***** ***** .

human GACATTTCTGAAATGTTTTGCAGATTTATAACAAGGGGTTTTCTGGCCTCTCCAAT
rabbit AATGTTTTCGGCACTGATTTCACAGATCTATGGACAGAAGAAGTTCCTGGCCTCTCTGGT
. * . ***** * . * . ** :*** . ***** ** . ** . . * . . ** ***** . . *

human ATTAAGTTCAGGCCAGGATCTGTGGTGGTACAATTGACTCTGGCCTCCGAGAAGGTACC
rabbit ATCAGGTTTCAGGCCAGGATCCGTGGTGGTGGACTTGATTCTGGCCTCCAGGAGGGCAGC
** *.***** *****. *.*** *****. *.** * *

human ATCAATGTCCACGACGTGGAGACACAGTTCAATCAGTATAAAACGGAAGCAGCCTCTCGA
rabbit ACCAATGAAGTCAGGTGCAGTCACAGTTTATTCAGAATATACCGCAAGCAGCCAG—G
* *****. [* . ** *:****** *:*****:***:*. ** *****:

human TATAACCTGACGATCTCAGACGTCAGCGTGAGTGATGTGCCATTTCTTTCTCTGCCAG
rabbit TATAACCTGAACATTTCAAGAGTCACAGTGCCTGATGTTCTGTCTCCCTCCTCTGCCAG
*****. ** **..****. **.* ***** * . * ** * *****

human TCTGGGGCTGGGGTGCCAGGCTGGGGCATCGCGCTGCTGGTGTCTGTGTTCTGGTT
rabbit TCTGG-----AGTTCCAGGCTGGGGATCGCCCTGCTGCTGGTGTCTGTGCTCCTGCTT
***** . ** ***** ***** ***** ***** ***** ** **

human GCGCTGGCCATTGTCTATCTCATTGCCTTGGCTGTCTGTGTCAGTGCCGCCGAAAGAACTAC
rabbit GCGCTGGCCATCATCTATTTATAGCCCTGGCCGTGTGTCAGTGCCGTGCAAGAACTGC
*****. ***** ***:*** ** ** ***** **.* *****. *

human GGGCAGCTGGACATCTTTCCAGCCGGGATACCTACCATCCTATGAGCGAGTACCCACC
rabbit GGGCAGCTGGATCTCTTCCGACCCGGGATACCTACCACCCCATGAGTGAGTACCCTACC
*****. ***** *.***** ***** ** ***** ***** **

human TACCACACCCATGGGCGCTATGTGCCCTAGCAGTACCGATCGTAGCCCTATGAGAAG
rabbit TACCACACCCACGGCCGCTACGTGCCCTGGCAGCACCAGACGGAGCCCATATGAGGAG
***** ** *****. ***** **.* [* *****. *****. **

human GTTTCTGCAGGTAATGGTGGCAGCAGCCTCTCTTACACAAACCCAGCAGTGGCAGCCACT
rabbit GAATCTGCGGGCAACGGGGTAGCGGCCTTTCTTACACGAGTCCACCCGTGGCAGCCACT
*.:*****. ** ** * * ***.*** *****. *. ** *.* *****

human TCTG—CCAACTTGTAGGGGCAGTCGCCCCTGAGCTGAGTGGCCAGCCAGTGCATTCC
rabbit TCTGCCATCTTGCTGGGACATG-----TACTTTTACCAAGGGCCAGCCGGGGCTGGCT
*** ***:*** :***. ** * . ** : . *. *****. * * *' *

human ACTCCACTCAGGTTCTTCAGGGCCAGAGCCCTGCACCCTGTTTGGGCTGGTGAGCTGGG
rabbit -----

human AGTTCAGGTGGGCTGCTCACAGCCTCCTCAGAGGCCCCACCAATTTCTCGGACACTTCT
rabbit -----

human CAGTGTGTGGAAGCTCATGTGGGCCCTGAGGGCTCATGCCTGGGAAGTGTGTGGTGGG
rabbit -----

human GGCTCCAGGAGGACTGGCCCAGAGAGCCCTGAGATAGCGGGGATCCTGAACTGGACTGA
rabbit -----

human ATAAAACGTGGTCTCCCACTGCGCAA
rabbit -----

Underline fields are primer sequences we used.

human AATGTGATGGAGACAG-----CTCCTCCAGATGAAATGACCACATCATTTCCC
rabbit ACTCTGACAGAGACTGTCTCTCAGGCGACATCCCCTCCAGGTGAAACAGCCACATCTCCC
* . * ** . *****: * : * ** . : * . : . * . * . : ** ****

human TCCAGTGTCACCAACACACTCATGATGACATCAAAGACTATAACAATGACAACCTCCACA
rabbit TCCAGTGTTAGCCAGACATCAAC---AACATCAGAAGTGCTCAAACTCCAACCTCCTCA
***** * * . * ** . * . ***** . * . . * . * * . *****: **

human GACTCCACTCTTGAAACACAGAAGAGACATCAACAGCAGGAAGTAAAGTTCTACCCCA
rabbit TATTCAACTGTGAAACAACCGAAGAAACGTCAACATCTAAAAGTGGGAGTCTCTCCA
* ** . ** * * . * . * . * . ***** . * . ***** * : . * . * . * * *

human GTGACCTCAGCAGTCTCAATAACAGCTGGACAGGAAGGACAATCACGAACAACCTCCTGG
rabbit GTCACCTCAGCAGTCTCCTCAACAG-----CAACTTCTTCA
** *****: ***** ***** *

human AGGACCTCTATCCAAGACACATCAGCTTCTTCTCAGAACCCTGGACTCGGAGCAGGCAG
rabbit ACAACCTCCACTCAGGAAACATCAGCCGTTTCTCAGAATCCACAGACTCAGGGTGGGGAG
* . ***** * ** . * . ***** ***** * . . ***** . * * . * **

human ACCACCAGGAATCTCAAACCAGCACCCTAACACACAGAACCCTTCAACTCCTTCTTTC
rabbit ACCACCAGAGGATCTCAAACCAGCACCCTGTGGAGGTGACTACATCAGCACCTCCATCC
***** . * . ***** . *****: . * . * . * * : * * * : * * *

human TCTCCAAGTGACACAATGTGACAGGGACTGTTTCTCAGAAGACATCTCCTTCAAGTGAA
rabbit TCCCAGGTAGACATAGTGTGCTCACTGACAATTTCTCAGGCAACATCCCCTCTAGGTGAA
** ** . * . * * . * . : * * * * : * . ***** . . ***** ** *****

human ACAGCTACCTCATCCCTCTGTAGTGTCACAAACACATCCATGATGACATCAGAGAAGATA
rabbit ACAGCCACCACATCTGTTTCCATAGTCAGCAAGACACCCTGAGAACAGCAGGAGTGATG
***** ** : * * * * * * * : * * * . * * * * . * * * * . * * * * . : * * *

human ACAGTGACAACCTCCACAGGCTCCACTCTTGAAACCCAGGGAGACATCATCAGTACCT
rabbit ACAATGACAACCTCTGCACCCTCAACTCTGGCAACCACAGAAGG---TACGTATCCTCT
** . ***** ** . * * * . ***** * * . * . * . * . : * . * * . *

human GTTACTGGAAGTCTTATGCCAGTCACCTCAGCAGCCTTAGTAACATTTGATCCAGAAGGA
rabbit AACACTGGGAGTCCTCCTCCAGTCACCTCAGCAGTCTCCACAACAGCTGCAACAGAAGAA
. : *****. **** *. ***** ***** ** .. **** ** : *****. *

human CAATCACCAGCAACTTTCTCAAGGACTTCTACTCAG---GACACAACAGCTTTTTCTAAG
rabbit AAATCTGCATCAACCTCTTTAACGACCTCCACTCTGGATGGAACATTAGCATTTTCATGG
. *****: ** **** * * ** *** ** *****: * * . ****: ****:*****: : *

human AACACCAGACTCAGAGCGTGGAGACCACCAGAGTATCTCAAATCAACACCCTCAACACC
rabbit AACCCCCAGACTCAGAGCATGGGTACCAGCACAGCATCCACACCAG-----TGCC
****. *****. ****. **** ** ** ** * * * . **

human CTCACACCGTTACAACATCAACTGTTTTATCCTCACCAAGTGGATTCAACCCAAGTGA
rabbit CCTACAGAGGAGACTGCATCAACTCCTACATCTTCTCTGAGTGGACACACTCTGACAGAG
* *** .** : ** : ***** * : *** ** : ***** : ** . * * : * .

human ACAGTTTCTCAGGAGACATTCCCTTCTGGTGAACAACCACCTCATCCCCTCCAGTGTC
rabbit ACCATTTCCAGGAGACAATCCCTCCAATAAAATGGCCACTATACCTCCTCCAGTACC
* . **** *****:***** * : * . *** .. ***** : * * *****. *

human AGCAATACATTCTGGTAACATCAAAGGTGTTGAGAATGCCAACCTCCAGAGACTCTACT
rabbit CACAACACAGACCCAACAACAATGGAGGTATCCAAAATGCCAACCTCCCCAGACTCCACT
.. *** ** :** .. *****: .. *****. * ** .*****. ***** **

human CTTGAAACACAGAGGAGACATCACTATCTGTAAGTGAACCATTTCTGCAATCACTTCC
rabbit GTGGA AACAGAGGGCACACATCACTACCTACAACCTGGGAACATGCCTGTATTCACTTCT
* * .***** ** . * * ***** ** . ** ***. * .*** *** * :*****

human AAAGTTTCAACCATATGGTGGTCAGACACTCTGTCAACAGCACTCTCCCCAGTTCTCTA
rabbit AAAGTGCAACCACAC-----CCCTCTCAACTAGTTCTTTA
***** ***** * * .*****. * ***** **

human CCTCCAAAATATCCACAGCTTTCCACACCAGCAGAGTGAAGTGCAGAGACCACAGGA
rabbit ACTTCAAAAACATTAACAGTTTTCCACCTACCAAGAAAAGGCACAGAGACTCCAAGA
. ** ***** ** .**** *****.***** * ** .** : ***** .***** .** **

human CGGCCTCATGAGAGGAGCTATTCTCTCCAGGTGTGTCTCAAGAAATATTTACTCTACAT
rabbit TGGTCTCATGACAGCAGCCTGATTTCTACAAGTATGCCAGGAGACATTATTACAGAG
** ***** ** *** .:* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,*

human GAAACAACAACATGGCCTTCTCATTCTCCAGCAAAGGCCACACAACCTTGGTCACAAACA
rabbit AAAATGACAATGGTGACATCATCATTCTCTGTTGATAACAACAACACTCAGCTTCCAAAA
.***.***. *.*:**,******. *.*:**,******. *.*:**,******. *.*:**,******.

human GAACTGCCCTCAACATCAACAGGTGCTGCCACTAGGCTTGTACAGGAAATCCATCTACA
rabbit GAACTATTGTCAATGCCAACAGGAGTTACCTGTTACCTTGTACCCAAAAGCCAACTCCT
*****, ***, ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,*

human GGGACAGCTGGCACTATTCCAAGGGTCCCCTCTAAGGTCTCAGCAATAGGGGAACCAGGA
rabbit TCAACAACCTGGCACCACAGTTTGGGTACACCTGAGGTCCCAACAACAGGAGAATTAGGA
.***,***** * : :*****,* **,****** **,* **,* **,* **,* **,* **,*

human GAGCCCACCACATACTCCTCCCACAGCACAACCTCTCCAAAAACAACAGGGGCAGGCGCC
rabbit GAGTCAACCACACAGCCTGATATGAGCCCATCTACTCAGAAAACCATGATAGCAGTTTCC
*** *,***** * * . : ***,**:* **,* **,* **,* **,* **,* **,* **,* **,*

human CAGACACAATGGACACAAGAAACGGGGACCACTGGAGAGGCTCTTCTCAGCAGCCCAAGC
rabbit CAGACACAATGGACACAAGGTCCAAGGACCACTGGAGAGATTACATCAACAGTCCGAGC
***** ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,*

human TACAGTGTGACTCAGATGATAAAAACGGCCACATCCCATCTTCTTACCTATGCTGGAT
rabbit TCTGTTCAACTATGGTCATGGAAACAGTGGCATCCCATCTCCTTCATCAACAATAAGC
* . ** .***. :*. * **,* **,* **,* **,* **,* **,* **,* **,* **,* **,* **,*

human AGACACACATCCAACAAATTACAACGGCACCATCAACAAATCATTCAACAATACATTCC
rabbit AGACATACATCTCAAGAACTATCACAGCATGCCAAAAGCTCAGTCCACACCACTCCCA
***** ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,* ***,**,*

human ACAAGCACCTCTCCTCAGGAATCACCAGCTGTTTCCAAAAGGGTCACACTCAAGCCCG
rabbit CCCAGCAGCTTCTCCTCGGAATCCTTGTCTATGCCAGCATAGGTACACTCAGCCACA
. * ,*** ** ***** ,*****. * . **,* * **,* **,* **,* **,* **,* **,*

human CAGACCACACAAGAATCACAAACCACGAGGTCCGTCTCCCCATGACTGACACCAAGACA
rabbit CTGACCACACCAGAATCCCAAGCCATGAGTTCATCACCCCCGAGACTGACACACCCAAT
*.:*****. *****. ***. *** ** * . **.:*****. :*****. . . * . :

human GT---CACCACCCAGGTTCTTCTTCACAGCCAGTGGGCACTCGCCTCAGAAATTGTT
rabbit GTGGCAACATCCGCAGCCTCTTCTGCCACACCAAGTGGACCCATCCTCAGAAAGCACT
** . **. :.* *** ***** ***** * .*****. * .***. ***** . *

human CCTCAGGACGCACCCACCATAAGTGCAGCAACAACCTTTGCCCAGCTCCACCGGGGAT
rabbit CCTCAGGAGGCATCCACCGTGGCTGCGGTGACAACCTCCATCCCTGCACCCTCAGG---
***** ** * .***. * . . ***. * .***** . ***.*:***:* . **

human GGTACACAACCCAGGCCCGACCACAGCACTGCAGGCAGCACCAGCAGCCATGATGCC
rabbit -----GACAGCCACCCAGCCACAGGACCACGCCAGCACCACCAGCCCCAGCCCC
. . * . . ***. . ***** ** . * * *****. . ****. . . **

human ACCCTGGGGCCCTCAGGAGGCAGTCACTTTCCAAAACAGGTGCCCTTACTCTGGCCAAC
rabbit ACCCTCCGGCCCTCCGGAGCCCACACTCTCCACAGCAAGCAGGTTTCCCAGGACGCT
***** *****. **** * . * . ***** ****. * . ** * . * **.* :*. * :*. * .

human TCTGTAGTGTCAACACCAGGGGGCCCAGAAGGACAATGGACATCAGCCTCTGCCAGCACC
rabbit GCTGTACCTCCCATCAGGGGGCCCAGGAGGACAGCAGGCATTGCCTTTTGAAGCACC
. . * . ** **. *****. . * . *** . * * ** . *****

human TCACCTGACACAGCAGCAGCCATGACCCATACCCACCAGGCTGAGAGCACAGAGCCTCT
rabbit TCCCCTGACACAGCCCAAGTCATTTCCAAAACCCAGCAGACTCGAGGCACAGAGACCACC
** . *****. . ** *** :***:***** ** . ** . . *****. ***:

human GGACAAACACAGACCAGCGAACCGGCCCTCCTCAGGTCACGAACCACCTCAGCGGCACA
rabbit GGGGAGGCTCAGCCAGCACCAGCCCCCTCAGTGCCAGACCCACCGCCGACCCATG
* . * . :***. *****. . ***. *** ***** * ** . . ***** . * . * ** .

human GCTACCCCTTCTCATCCGGGGCGAGTGGCACAACCTTCAGG---AAGCGAAGGAATA
rabbit GCTGCCACGTCTTCCCCACGGCAAGGGGCACAACCTTTGGAAGGCTTTCCCGGAAACG
. ** . * ** * . * . ***. * * **. * * * : : * . . * . ** .

human TCCACCTCAGGAGAGACGACAAGGTTTTTCATCAAACCCCTCCAGGGACAGTCACACAACC
rabbit GCCACTGCAGCCAAGACCACCGACTTTCCACAACCTCCCTCCAGCAGCAGCCAGCAGCT

**** ** ..**** *. .. ** * :***. *****. .. ** **.*. *. *

human CAGTCAACAACCGAATTGCTGTCCGCCTCAGCCAGTCATGGTGCCATCCCAGTAAGCACA
rabbit CCGCCAACGGCTGAGCTGTTGTCTCTGGCACCAGTCCTGACGCTACCCCTGCAGCCGTA

*. * ****. * **.* ** ***** * ..*****. **.* ** * ****:* * . * . *

human GGAATGGCGTCTTCGATCGTCCCCGGCACCTTTCATCCCACCCTCTCTGAGGCCTCCACT
rabbit GGAATGAGGTCTCCTGCTGTACCCAGCACCTCTCCTCCTACCATCACTGGGGTCCCGACT

*****. **** * . *.***.***** **.* **.* **.* **.* **.* **.* **.* **.*

human GCAGGGAGACCGACAGGACAGTCAAGCCCAACTTCTCCAGTGCCTCTCCTCAGGAGACA
rabbit GATTGGACAGCGTCTTCCAG-----GACCCCTCAGGAGAAG

*. : *** * **:* : .. :* *****.*****. .

human GCCGCCATTTCCGGATGGCCAGACTCAGAGGACAAGAACCAGCAGAGGGTCTGACACT
rabbit CCAGCTGTCTCCAGATGGCTCACACTCCAAGTGCAGGAGCCACCAGAGGACCTGAAGTC

*. ** . * ****.***** ** *****. ** . **.* **.* *****. ****. .

human ATCAGCCTGGCGTCCCAGGCAACCGACACCTTCTCAACAGTCCCACCCACACCTCCATCG
rabbit AGCACCTTGGCCTGGCAGCTCACTGACACCTTCTCAGCAGTCACAGCGCCACCACCTCG

* ** * **** * ** . ** *****.*****.*****. ** * .****:* **.* **.*

human ATCACATCCACTGGGCTTACATCTCCACAAACCGAGACCCACACTCTGTCACCTTCAGGG
rabbit CCCACAACCAG-----

. ****:*****

human TCTGGTAAAACCTTACCACGGCCCTCATCAGCAACGCCACCCCTTCTCCTGTACCTAC
rabbit -----

human GCTTCCTCGGCATCCACAGGTCACACCACCCCTTTCATGTCACCGATGCTTCCTCAGTA
rabbit -----

human TCCACAGGTCACGCCACCCCTCTTCTGTACCAGCCCTTCTCAGTATCCACAGGTCAC
rabbit -----

human ACCACCCCTCTTCTGTACCGACACTTCTCAGAATCCACAGGTCAGGTCACCCCTCTT
rabbit -----

human CCTGTACCAGCTTTTCTCAGCATCCACAGGTGACAGCACCCCTCTTCTGTCACTGAC
rabbit -----

human ACTTCTCAGCATCCACAGGTCAGGTCACCCCTCTTCTGTACCAGCCTTTCTCAGCA
rabbit -----

human TCCACAGGTGACACCACCCCTCTTCTGTCACTGACACTTCTCAGCATCCACAGGTCAC
rabbit ---CCCACTGAGCACACATCACAAACCGAGACTCGCACTCCCTCACCTTCAGGCAGCAGC
 .*. ** .*. *!*:*. *! *** .*** ***** *!*. .*. * .*

human GCCACCTCTTCTGTACCGACACTTCTCAGTATCCACAGGTCACACCACCCCTCTT
rabbit ACAGCCTCTATTAATTCTTCAATTGTCTCAGTCTGTACCTGGCCCTCCAGCACCGGGAGT
 .*.*****.*. * :* :!* . **!* * . . **.* *** . *

human CCTGTACCGACACTTCTCAGCATCCACAGGTACGCCACCTCTTCTGTACCGAC
rabbit CCT-----

human ACTTCTCAGTATCCACAGGTCACACCACCCCTCTTCAATGTCAGTATGCTTCTCAGCA
rabbit ---CCTACCCTAGTTCCAGGTCACACTGCTCCCTGCCAGTTACAACACTTCTCCCA
 * !* ** .***** . * ** * * !* *! .*.*****. **

human TCCACAGGTCAGGCCACCCCTCTTCTGTACCAGCCTTCTCAGTATCCACAGGTGAC
rabbit CCCACAG-----

human ACCAGCCTCTTCTGTCACTAGCCCTTCTCAGCATCCACAGGTACGCCACCCCTCTT
rabbit -----

human CTTGTCACCGACTTCCTCAGCATCCACAGGACAGGCCACCCCTTCTTCTGTACCGAC
rabbit -----

human GCTTCCTCAGTGTCACAGATCAGGCCACCTCTTCTGTAAACCATCCCTCCGCAGCA
rabbit -----

human TCCACAGGTACACCCACCCCTTCTTCTGTACCGACTTCCTCAGCATCCACAGGTACG
rabbit -----

human GCCACCTCTTCTTGTACCGACTTCCTCAGTATCCACAGGTGACACCAGCCTCTT
rabbit -----

human CCTGTCACTAGCACTTCCTCAGCATCCACAGGTACGTCACCTCTTTCATGTACCAGC
rabbit -----

human CCTTCCTCAGCATCCACAGGTACGCCACCCCTTCTTCTGTACCAGCCTTCTCAGCA
rabbit -----

human TCCACAGGTGACACCATGCCTCTTCTGTCACTAGCCCTTCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCCCTTCTTCTGTACCGACGCTTCTCAGTATCCACAGGTACACCCACCCCTCTT
rabbit -----

human CATGTCACTGATGCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTTCCTGTCACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCACGCCTCTTCCTGTCACTAGCCCTTCCTCAGCA
rabbit -----

human TCCACAGGTCACGCCACCCCTCTTCTTGTACCGACACTTCCTCAGCATCCACAGGACAC
rabbit -----

human GCCACCCCTCTTCCTGTCACCGACGCTTCCTCAGTGTCCACAGATCAGGCCACCTCTCTT
rabbit -----

human CCTGTAACCATCCCTTCCGCAGCATCCACAGGTCACACCACCCCTCTTCCTGTCACCGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTCAGGCCACCTCTCTTCTTGTACCGACACTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACGCCTCTTCCTGTCACTAGCACTTCCTCAGCATCCACAGGTCAC
rabbit -----

human GTCACTCCTCTTCATGTCACCAGCCCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCAGCCTTTCTTCAGCATCCACAGGTGACACCATGCCTCTTCCTGTCACTAGC
rabbit -----

human CCTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCGACGCTTCCTCAGTA
rabbit -----

human TCCACAGGTACACCACCCCTCTTCCTGTCACCAGCCCTTCCTCAGCATCTACAGGTAC
rabbit -----

human ACCACCCCTCTTCCTGTCACCGACACTTCCTCAGCATCCAAAGGTGACACCACCCCTCTT
rabbit -----

human CCTGTCACCAGCCCTTCCTCAGCATCTACAGGTACACCACCCCTCTTCCTGTCACCGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCAATGCTTCCTCATT
rabbit -----

human TCCACAGGTACAGCCACCCCTCTTCATGTCACCAGCCCTTCCTCAGCATCCACAGGTAC
rabbit -----

human GCCACCCCTCTTCCTGTCACCAGCACTTCCTCAGCATCCACCGGTACGCCACCCCTCTT
rabbit -----

human CCTGTCACCGGCCTTTCTCAGCTACCACAGATGACACCACCCGTCTTCCTGTCACCGAC
rabbit -----

human GTTTCCTCGGCATCCACAGGTGAGCCACCCCTCTTCCTGTCACCAGCCCTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACGCCTCTTCTGTCACTAGCCCTTCCTCAGCATCCACAGGTGAC
rabbit -----

human GCCAGCCCTCTTCTTGTCACTGACGCTTCCTCAGCATCCACAGGTGAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGTATCCACAGCTCAGGCCACCCCACTTCCTGTCACCGGC
rabbit -----

human CTTTCTCAGCTTCCACAGATGACACCACCGTCTTCCTGTCACCGAGGTTTCCTCGGCA
rabbit -----

human TCCACAGGTGAGGCCATCCCTCTTCTGTACCAGCCCTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCTGTCACCGACGCTTCCTCAGCATCCACAGGTGACACCACCTCTCTT
rabbit -----

human CCTGTCACCATCCCTTCCTCAGCATCTTCAGGTCACACCACCTCTCTTCTGTCACCGAC
rabbit -----

human GCTTCCTCAGTGTCCACAGGTGACGCCACCTCTCTTCTGTCACCGAGGTTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACCCCTCTTCTGTACCAGACTAACTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCATGTCACCGACGCTTCCTCAGTATCCACAGGTCAGGCCACCTCTCTT
rabbit -----

human CCTGTCACCAGCCTTTCTCAGCATCCACAGGTGACACCACGCCTTTCCTGTCAGTAGC
rabbit -----

human CCTTCCTCAGCATCCTCAGGTCACACCACCCCTCTTCCTGTCACCGACGCTTCCTCAGTA
rabbit -----

human CCCACAGGTCAGGCCACCTCTTTCCTGTCACCGACGCTTCCTCAGTGTCCACAGGTCAC
rabbit -----

human GCCACCCCTCTTCCTGTCACCGACGCTTCCTCAGTGTCCACAGGTCATGCCACCCCTCTT
rabbit -----

human CCGGTCACCGACACTTCCTCAGTATCTACAGGACAGGCCACCCCTCTTCCTGTCACCAGC
rabbit -----

human CTTTCCTCAGCATCCACTGGTGACACCACGCCGCTTCCTGTCACCGATACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGACACCCCTCTTCCTGTCACCAGCCTTTCTCAGTATCCACAGGTGAC
rabbit -----

human ACCACGCCTCTTCCTGTCAGTAAACCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTT
rabbit -----

human CTTGTCACCGACGCTTCCTCAATATCCACAGGTCACGCCACCTCTCTTCTTGTCACCGAC
rabbit -----

human GCTTCCTCAGTATCCACAGGTCACGCCACCGCTCTTCATGACACCGATGCTTCCTCATT
rabbit -----

human TCCACAGGGGACACCACCCCTCTTCCTGTCACCAGCCCTTCCTCAACATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCCTGTCACCGAAACTTCCTCAGTATCCACAGGTCACGCCACCTCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTCACGCCACCTCTCTTCCTGTCACCGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTCACGCCACCCCTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCCTCTTCCTGTCACCAGCCCTTCCTCAGCATCCACAGGTCAC
rabbit -----

human GCCATCCCTCTTCTTGTCACCGACACTTCCTCAGCATCCACAGGACAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCAGCCTTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCGAC
rabbit -----

human GCTTCCTCAGTGTCCACAGGTCACGCCACCTCTCTCCTGTCACCAGCCTTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACTCCTCTTCCTGTCACTAGCCCTTCCTCAGCATCCACAGGTCAC
rabbit -----

human GCCACCCCTCTTCATGTACCGACGCTTCCTCAGCATCCACAGGTCACGCCACCCCTCTT
rabbit -----

human CCTGTCACCAGCCTTTCCTCAGCATCCACAGGTGACACCACGCCTCTTCCTGTCACTAGC
rabbit -----

human CCTTCCTCAGCATCCACAGGTCACGCCACCCCTCTTCATGTACCGACGCTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACCCCTCTTCCTGTACCAGCTTCCTCAGCATCCTCAGGTCAC
rabbit -----

human ACCACCCCTCTTCCTGTACCGACGCTTCCTCAGCATCCACAGGTGACACCACCCCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTACGCCACCCATCTTCCTGTACCGGC
rabbit -----

human CTTTCCTCAGCTTCCACAGGTGACACCACCCGTCTTCCTGTACCAACGTTTCCTCGGCA
rabbit -----

human TCCACAGGTCATGCCACCCCTCTTCTGTACCAGCACTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCTGGCACCGACACTTCCTCAGTATCCACAGGTACACCACCCCTCTT
rabbit -----

human CTTGTCACCGACGCTTCGTAGTATCCACAGGTGACACCACCCGTCTTCTGTACCAGC
rabbit -----

human CCTTCTCAGCATCTACAGGTACACCACCCCTCTACCTGTCACCGACACTCCCTCAGCA
rabbit -----

human TCCACAGGTGACACCACCCCTCTTCTGTACCAATGCTTCCTCATTATCCACAGTCAC
rabbit -----

human GCCACCTCTTTCATGTCACCAGCCCTTCCTCAGCATCCACAGGTACGCCACCTCTCTT
rabbit -----

human CCTGTCACCGACACTTCGGCAGCATCCACAGGTACGCCACCCCTCTTCTGTACCAGC
rabbit -----

human ACTTCTCAGCATCCACAGGTGACACCACCCCTCTTCTGTACCGACACTTACTCAGCA
rabbit -----

human TCCACAGGTGAGGCCACCCCTCTTCTGTACCAGCCTTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCAGGCCTCTTCCTGTCACTAGCCCTTCCTCAGCATCCACAGGTCAGGCCACTCCTCTT
rabbit -----

human CTTGTCACCGACGCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTTCCTGTACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCAGCCTCTTCCTGTCACTAGCCCTTCCTCAGCA
rabbit -----

human TCCACCGGTCATGCCACCTCTTTCCTGTACCGACACTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCTCTCTTCCTGTACCGACACTTCCTCAGCATACACAGGTGACACCACCTCTCTT
rabbit -----

human CCTGTACCGACACTTCCTCATCATCCACAGGTGACACCACCCCTCTTCTTGTACCGAG
rabbit -----

human ACTTCCTCAGTATCCACAGGTGACACCACCCCTCTTCCTGTACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCCTCTTCCTGTACCAACACTTCCTCAGTATCCACAGGTGAC
rabbit -----

human GCCACCCCTCTTCATGTACCAGCCCTTCCTCAGCATCCACAGGTCACACCACCCCTCTT
rabbit -----

human CCTGTCACCGACGCTTCGTCAGTGTCCACAGGTCACGCCACCTCTCTCCTGTCACCGAC
rabbit -----

human GCTTCCTCAGTGTTACAGGTCATGCCACCTCTCTCCTGTCACCATCCCTTCCTCAGCA
rabbit -----

human TCCTCAGGTCACACCACCCTCTTCCTGTCACCGACGCTTCCTCAGTGTCCACAGGTCAC
rabbit -----

human GCCACCTCTCTCCTGTCACCGACGCTTCCTCAGTGTCCACAGGTCATGCCACCCTCTT
rabbit -----

human CCTGTCACCGACGCTTCCTCAGTGTCCACAGGTCACGCTACCCCTCTTCCTCTCACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCAGCCTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCTCTTCCTGTCACCAGCCTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCCTGTCACCGACACTTCCTCAGCATCCACAGGTCACGCCACCTCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTCACGCCACCCTCTTCCTGACACCGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTCACGCCACCCTTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCATAGGTCACGCCACCCTCTTCTTCCTGTCACCGACACTTCCTCAATATCCACAGGTCAC
rabbit -----

human GCCACCCCTTTCATGTCACCAGCCCTTCCTCAGCATCCACCGGTCACGCCACCCCGCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTCACGCCAACCCCTTTCATGTCACCAGC
rabbit -----

human CCTTCCTCAGCATCCACCGGTCACGCCACCCCGCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCACGCCACCCTCTTCTTCCTGTCACCAGCCTTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCACGCCTTTCCTGTCAGTACCCCTTCCTCAGCATCCACAGGTCACACCACCCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTCAGGCCACCGCTTTCCTGTCACCAGC
rabbit -----

human ACTTCCTCAGCATCCACAGGTGACACCACCCTTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCCTCTTCCTGTCACCAGCCTTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCAGCCTCTTCCTGTCAGTACTAGCCCTTCCTCAGCATCCACAGGTACGCCACTCCTCTT
rabbit -----

human CTTGTCACCGACGCTTCCTCAGCATCCACAGGTACGCCACCCCTCTTCCTGTCACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCAGCCTCTTCCTGTCAGTACTAGCCCTTCCTCAGCA
rabbit -----

human TCCACCGGTCATGCCACCTCTCTTCCTGTCACCGACACTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCTCTCTTCCTGTCACCGACACTTCCTCAGCATACACAGGTGACACCACCTCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCATCATCCACAGGTGACACCACCCCTCTTCTTGTCACCGAG
rabbit -----

human ACTTCCTCAGTATCCACAGGTACGCCACTCCTCTTCTTGTCACCGACGCTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCCTCTTCATGTCACCAGCCTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCACCCCTGTGCCTGTCACCGACACTTCCTCAGTATCCACAGGTCAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCGGCCTTTCCTCAGCTTCCACAGGTGACACCACCCGTCTTCCTGTCACCGAC
rabbit -----

human ATTCCTCGGCATCCACAGGTCAGGCCACCCCTCTTCCTGTCACCAACACTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCATGCCTCTTCCTGTCACTAGCCCTTCCTCAGCATCCACAGGTCAC
rabbit -----

human GCCACCCCTCTTCCTGTCACCAGCACTTCCTCAGCATCCACCGGTCAGGCCACCCCTGTT
rabbit -----

human CCTGTCACCAGCACTTCCTCAGCATCTACAGGTACACCACCCCTCTTCCTGTCACCGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCAGCCCTTCCTCAGCA
rabbit -----

human TCTACAGGTACACCACCCCTCTTCATGTACCATCCCTTCCTCAGCATCCACAGGTGAC
rabbit -----

human ACCAGCACTCTTCCTGTCACCGGCCTTCCTCAGCATCCACCGGTCAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGTATCCACGGTCACGCCACGCCTTTCCTGTCACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCACCCCTTTCCTGTCACCGACGCTTCCTCGGCA
rabbit -----

human TCCACAGGTGAGGCCACCCCTTTCCTGTCACCAGCCTTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCACCCCTTTCCTGTCACCGACGCTTCCTCAGTATCCACAGGTGAGGCCACCCCTT
rabbit -----

human CCTGTCACCGACACTTCCTCAGCATCCACAGGTGACACCACCCGTTCCTGTCACGGAC
rabbit -----

human ACTTCCTCAGCATCCACAGGTGAGGCCACCCCTTTCCTGTCACCAGCCTTTCCTCAGTA
rabbit -----

human TCCACAGGTGACACCACCCCTTTCCTGTCACCGACGCTTCCTCAGTATCCACAGGTGAC
rabbit -----

human GCCACCCCTTTCCTGTCACCGACACTTCCTCAGCATCCACAGGTGACACCACCCGTCTT
rabbit -----

human CCTGTCACGGACACTTCCTCAGCATCCACAGGTGAGGCCACCCCTTTCCTGTCACCATC
rabbit -----

human CCTTCCTCATCATCCTCAGGTCACACCACCCCTCTTCCTGTCACCAGCACTTCCTCAGTA
rabbit -----

human TCTACAGGTCAGGTCACCCCTCTTCATGTCACCAGCCCTTCCTCAGCATCCACAGGTCAC
rabbit -----

human GTCACCCCTCTTCCTGTCACCAGCACTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTT
rabbit -----

human CTTGTCACCGACGCTTCCTCAGTGTCCACAGGTCAGGCCACGCCCTCTTCCTGTCACCGAC
rabbit -----

human GCTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTCAGGCCACCCCTCTTCCTGTCACCAGCCCTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCACCCCTCTTCCTGTCACCGACGCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTT
rabbit -----

human CCTGTCACCATCCCTTCCTCAGTATCCACAGGTGACACCATGCCTCTTCCTGTCAGTAGC
rabbit -----

human CCTTCCTCAGCATCCACAGGTCAGGCCACCCCTCTTCCTGTTACCGGCCCTTCCTCAGCT
rabbit -----

human TCCACAGGTGACACCACCCTCTTCTGTACCGACACTTCCTCAGCATCCACAGTCAC
rabbit -----

human GCCACCCCTCTTCTGTACCGACACTTCCTCAGCTTCCACAGATGACACCACCGTCTT
rabbit -----

human CCTGTCACCGACGTTTCTCGGCATCCACAGGACATGCCACCCCTCTTCTGTACCCAGC
rabbit -----

human ACTTCTCAGCATCCACAGGTGACACCACCCTCTTCTGTACCGACACTTCCTCAGTA
rabbit -----

human TCCACAGGTCACGCCACCTCTTCTGTACCCAGCGTTCTCAGCATCCACAGGTCAC
rabbit -----

human GCCACCCCTCTTCTGTACCGACACTTCCTCAGTATCCACAGGTCAGGCCACCCTCTT
rabbit -----

human CCTGTCACCAGCACTTCCTCAGTATCTACAGGTCACGCCACCCTCTTCTGTACCCAGC
rabbit -----

human CCTTCTCAGCATCCACAGGTCAGGCCACCCTGTTCTGTACCCAGCACTTCCTCAGCA
rabbit -----

human TCCACAGGTGACACCACCCTCTTCTGTACCAATGCTTCTCATTATCCACAGGTCAC
rabbit -----

human GCCACCCCTCTTCATGTCACCAGCCCTTCCTCAGCATCCAGAGGTGACACCAGCACTCTT
rabbit -----

human CCTGTCACCGATGCTTCCTCAGCATCCACGGTCACGCCACCCCTCTTCCTCTCACCAGC
rabbit -----

human CTTTCCTCAGTATCCACAGGTGACACCAGCCTCTTCCTGTCACCGACACTTCCTCTGCA
rabbit -----

human TCCACAGGTGAGGCCACCCCTCTTCCTGTCACCAGCCTTCCTCAGTATCCACAGGTGAC
rabbit -----

human ACCAGCCTCTTCCTGTCACCATCCCTTCCTCAGCATCCTCAGGTGACACCACCTCTCTT
rabbit -----

human CCTGTCACCGACGCTTCCTCAGTGTCCACAGGTGACGCCACCCCTCTTCCTGTCACCAGC
rabbit -----

human ACTTCCTCAGCATCCACAGGTGACACCACCCCTCTTCCTGTCACCGACACTTCCTCAGCA
rabbit -----

human TCCACAGGTGACGCCACCCCTCTTCCTGTCACCGACACTTCCTCAGCATCCACAGGTGAC
rabbit -----

human GCCACCCCTCTTCCTGTCACCAGCCTTCCTCAGTATCCACAGGTGACGCCACCCCTCTT
rabbit -----

human GCTGTCAGCAGTGCTACCTCAGCTTCCACAGTATCCTCGGACTCCCCTCTGAAGATGGAA
rabbit -----CATCTTTGGGCTCCACAACGAAGACCGAA
*** * **.****.*:.**** **

human ACACCAGGAATGACAACACCGTCACTGAAGACAGACGGTGGGAGACGCACAGCCACATCA
rabbit ACATCAGGAATGATCCCAACCTCACTGTGGATAAATGGTGGGAGAAGCACAGCACTGTCA
*** ***** . .* * *****:.* *.* *****.******. . ***

human CCACCCCAACAACCTCCCAGACCATCATTTCCACCATTCCCAGCACTGCCATGCACACC
rabbit CCGCCCTCAACAACCTCCCTGACCCCTACGAACTCCACGCCACCACATCCACAGGCTTC
*.**** *.******.*****. * :.*:*** **** ***:*** . .*: *

human CGCTCCACAGCTGCCCCATCCCATCCTGCCTG-----AGAGAGGAGTTCCCTC
rabbit CGTTCAACAACCTCCCTCTGTCCCGTCCAGCAGGACAAGCGGGCCAGGCGTCTCCCTC
** **.***.* ** * .*****.***:* * . . **.* ** *****

human TTCCCTATGGGGCAGGCGCCGGGACCTGGAGTTCGTCAGGAGGACCGTGGACTTCACC
rabbit TTTCCCTACGGGTCCAGCGTTGGAGACACGCCGTTTCGTCAGGAGGACAGTGGACTTCACC
** ***** ** * . *** **.***.* * .*****.******.******

human TCCCCTCTTCAAGCCGGGACTGGCTTCCCCTTGGCTCCTCTCTCCGTGATTCCCTC
rabbit TCTCAGCTCTTCAAGCCCGCATTGGCTTCCCCTGGGCTCCTTCTGCGAGATTCCCTC
** * .***** * ***** ***** ** **.******

human TACTTCACAGACAATGGCCAGATCATCTTCCAGAGTCAGACTACCAGATTTTCTCCTAC
rabbit TACTTCACAGACAACGGCCAGATCATCTTCCGGAGTCAGACAGCCAGATCTTCTCCTAC
*****.******.******.******.******

human CCCAACCCACTCCAACAGGCTTACAGGCCGGGACCCTGTGGCCCTGGTGGCTCCGTTCC
rabbit CCCAATCCGCCTCGGCGAGGCTTACAGCTTGGGACCCCGTGGCCGTGGTGGCTCCCTTC
***** **.* * . ***** ***** ***** ***** **

human TGGGACGATGCTGACTTCTCCACTGGTGGGGACCACATTTTATCAGGAATACGAGACG
rabbit TGGGACGATGCTGACTTCTCCATCCGTGGGGAACCATATTTTACCAGGAATATGAGACA
*****.******.******.******.******

human TTCTATGGTGAACACAGCCTGCTAGTCCAGCAGGCCGAGTCTTGGATTAGAAAGATGACA
 rabbit TTCTATAATGAACACAACCCGCTAGTCTGGCAGGTGGAGTCTTGGATTGCCAGTGGAC
 *****.*****.* ***** .***** **********.*.....**...

human AACACGGGGGCTACAAGGCCAGGTGGGCCCTAAAGGTCACGTGGTCAATGCCACGCC
 rabbit CTTTGGGGTGAGTGGACCCATAGCAGCTCCCCTGGAGTGACCTGG----GAATCCCAGCA
 .: :. ** *. *. * . ** :* *** :...* ** ** * .: .**..**

human TATCCTGCCAGTGGACCCTGGGAG-----CAACACCTACCAAGCCATCCTCTCCAC
 rabbit TTTGAAGCCAGGTGGACCAGGAACAGGTGATACCTGCACCTACCAGGCCATCCTCTCCAC
 : .:***.*****. .. ** *:.*****.*****

human GGACGGGAGCAGTGCCTATGCCCTGTTTCTCTACCAGAGCGGTGGATGCAGTGGGACGT
 rabbit CGACGGGAGCAGTGCCTACGCACTGTTTCTTTACCAGGCAATGGGATGCAGTGGGATGT
 ***** ***** *.***** *****.*****

human GGCCAGCGCTCAGGCAACCCGGTGCCTCATGGGCTTCTCTAGTGGAGATGGCTATTTGAA
 rabbit AGCCAGCGCCAGGCAACTCGGTCCCTCATGGGCTTCTCCAGTGCAGACGGGTATTTGCA
 .***** ***** ***** ***** ***** ** ** * ** * .

human AACAGCCCACTGATGTCCAGCCAGTGTGGGAGAGGTATCGCCCTGATAGATTCCTGAA
 rabbit CAACAGCCCGCTGATTTCCGGCCAGTGTGGGAGAGATATCGTCCGACCGATGGCTGAA
 .*****.***** *****.***** ***** ** ** .** *****

human TTCCAACCTCAGGCCTCAAGGGCTGCAGTTCTACAGGCTACACGGGAAGAAAGGCCAA
 rabbit TTCCAACCTAGGCCTCCGGGGCTGCAGATCTACAGGCTCCACAGGAGGCGATACCCAA
 *****. *****. *****:*****.***.***.*.*.*****

human CTACCGTCTCGAGTGCCTGCAGTGGCTGAAGAGCCAGCCTCGGTGGCCAGCTGGGGCTG
 rabbit CTACTATCTCAAGTGCAGCA-----
 **** .***.*****:***

human GAACCAGGTCTCCTGCCCTTGTTCCTGGCAGCAGGGACGACGGGACTTACGATTCCAACC
 rabbit -----CCCTTGCACCTGGCAGCAGGGACGATGGGACTTACGATTCCGGCC
 ***** :***** *****. **

human CGTCAGCATAGGTCGCTGGGGCCTCG---GCAGTAGGCAGCTGTGCAGCTTCACCTCTTG
rabbit TGTGGGCTCAGGCTGGTGGGGCCATGGCGGGCCGGAAGCTGTGCCGCTTCTCCTCCTG
** .** : ** * ***** : * ** . * . ** . ***** . ***** : ***** **

human GCGAGGAGGCGTGTGCTGCAGCTACGGGCCCTGGGGAGAGTTTCGTGAAGGCTGGCACGT
rabbit GCAAGGAGGCGTGTGCTGCAGCTACGGGCCCTGGGGAGAGCTTCGCGAAGGCTGGGGAGT
* . ***** ***** ***** ***** ***** . . **

human GCAGCGTCCTTGGCAGTTGGCCAGGAACTGGAGCCACAGAGCTGGTGTGCCGCTGGAA
rabbit GGACAGTCCTTGGCACTTTGAGCAGGAACTGGAGGCGCAGAACTGGTGTGCCGCTGGAA
* * . ***** ** * . ***** * . **** . ***** *****

human TGACAAGCCCTACCTCTGTGCCCTGTACCAGCAGAGGGGCCACAGTGGGCTGTGCTAC
rabbit CGACAAGCCCTCCTTCTGCTCGCTGTACAAGCGGAGGGCGGCCCGTCAGCTGTGCCGG
***** . * **** * ***** . **** . ***** * . *** . ***** .

human ATACAGGCCCCACAGCCCGCTGGATGTTGGGGACCCACATCACCACCTTGATGG
rabbit ATACAGGCCCTCCAGCCGGTTGGATGTTTGGGGACCCACATCACCACCTTGATGG
***** * . . ** * ***** ***** ***** *****

human TGTCA GTTACACCTTCAATGGGCTGGGGACTTCTGCTGGTCCGGGCCAAGACGGGAA
rabbit CGCCAATTTACCTTCAATGGTCTGGGGACTTCTGCTGGTCCGGGCCCTGGGACGGGAA
* ** . ** : ***** ***** ***** . . *****

human CTCCTCCTTCTGCTTCAAGGCCGACCGCCAGACTGGCTCAGCCAGGCCACCAACTT
rabbit CTCCTCCTTCTGCTGCAAGGCCGCACTGCCAGACCGGCTCCGCCAGGCCACCAACTT
***** ***** . ***** ***** ***** . ***** *****

human CATCGCCTTTGCGGCTCAGTACCGCTCCAGCAGCCTGGGCCCGTCACGGTCCAATGGCT
rabbit CATTGCCTTTGCAGCTCAGTATGAGTCCAGCAGCCTGGCCCCATCAGGTTCAATGGTT
** ***** . ***** . ***** ***** ***** ***** *

human CCTTGAGCCTCAGGACGCAATCCGTGTCTGCTGGATAACCAGACTGTGACATTTAGCC
rabbit CCTGGAGCCCAATGACACAATCCGTGTGCTGCACAATAACCAGACTGTGACATTTGAAAC
** ***** . * ** . ***** ***** : . ***** ***** * . *

human TGACCATGAAGACGGCGGAGGCCAGGAGACGTTCAACGCCACCGGAGTCCTCCTGAGCCG
rabbit CGACCTTGAAGATGCAGAAGGCCAGGAGATTTTCAACACCACCGGGGTGCTGCTGACCCG
: * . *,***** *****.*****. ** ** *** **

human CAACGGCTCTGAGGTCTCGGCCAGCTTCGACGGCTGGGCCACCGTCTCGGTGATCGCGCT
rabbit CAACGGCTCTCAGGTCTCAGCCAGCTTTGATGGCACGGTGGCCATCTCGGTGATGGCTGT
***** *****.***** ** ***: ** .*,***** ** *

human CTCCAACATCCTCCACGCCTCGCCAGCCTCCGCCCCGAGTACCAGAACCGCACGGAGGG
rabbit CTCCCACCTCCTCCACGCCTCCTCCAGCCTCCAGAGGAGTACCAGGGCCGCACGGAGGG
. **,** *****. . *****. *****

human GCTCCTGGGGTCTGGAATAACAATCCAGAGGACGACTTCAGGATGCCAATGGCTCCAC
rabbit CCTCCTGGGGTCTGGAACAACAATCCGATGATGACTTCGGATGCCAATGGCACTTC
***** *****. ** ** *****.*****: * :*

human CATTCCCCAGGGAGCCCTGAGGAGATGCTTTTCCACTTTGGAATGACCTGGCAGATCAA
rabbit CGTGGCCCGGGGAGCTCCGAGGAGCAGCTTTTCCACTATGGGATGACCTGGAAGCTCAA
* * *** .***** * *****. :*****:***.*****. **, ****

human CGGGACAGGCCTCCTTGCCAAGAGGAATGACCAGCTGCCTTCCAACCTCACCCTGTTTT
rabbit CGGGACAGGCCTCCTTGCCAGAGGGACGACCAGCTGCCTCCACCTCACCCTGTCTT
**********.*****. * ***** ***,***** **

human CTA CTCAACTGCAAAAAACAGCTCCTGGGCTGAACATTTGATCTCCA ACTGTGACGG
rabbit CTTCTCCA ACTGCTGGACAACAGCTCTGGGACCCGGCTCTGGTCTCTGGGTGCAGTGG
:.*****: .*,***** ***, . . * **,* ** . * . **

human AGATAGCTCATGCATCTATGACACCCTGGCCCTGCGCAACGCAAGCATCGGACTTCACAC
rabbit AGACAGACAATGCATCTATGACGCCCTGGCCATGCGAGACGCCGGTGCAGGCATCCACAC
** ** .*****.*****.***.****. * . .** . * *****

human GAGGGAAGTCAGTAAAACTACGAGCAGGCGAACGCCACCCTCAATCAGTACCCGCCCTC
rabbit CAGGACACTGTTTAGAACGTACCGGCAGATGAACGCCACCCAGAATCAGTCCCGCCCTC
. * * : **, ** , .****. *****: *****:*****

human CATCAATGGTGGTTCGTGTGATTGAAGCCTACAAGGGGCAGACCACGCTGATTGATTACAC
rabbit CATCAAGGGCGAGCATGTGATTTGCGCCTATAAGGGGAAGAGCGTGTGGATTCCGTACAC
***** ** *, *. ***** .. ***** ***** .*** * . * *****. *****

human CAGCAATGCTGAGGATGCCAACTTCACGCTCAGAGACAGCTGCACCGACTTGGAGCTCTT
rabbit CAGCGACTCGGAGAATGTCGTGTTACGCTCAGAAACAACCTGCACTGACATCAAGCTCTT
. * * ** . * . : *****.***. ***** **.* .*****

human TGAGAATGGGACGTTGCTGTGGACACCCAAGTCGCTGGAGCCATTCACTCTGGAGATTCT
rabbit CGAGAATGGCACATTGCTGTGGACCCGAAGTCACTGGAACCGTTCACTCTGGAGATCCT
***** *. *****. * *****. *****. **. *****

human AGCAAGAAGTCCAAGATTGGCTTGGCATCTGCACTCCAGCCCAGGACTGTGGTCTGCCA
rabbit AGTGAGAAGCACCAAGACGGGCTCTCGTCTGCCTCCAGCCCAGACCGTGTCTGCGC
* . ***** . ***** ** * * .*****. *****. ** ** ***** .

human TTGCAATGCAGAGAGCCAGTGTGTTGTACAATCAGACCAGCAGGGTGGGCAACTCCTCCCT
rabbit ATGCAGTGCAGAGAGCCAGTGTCTGTACAACCAGACCAGCTGGGTGGGCAATCCTCCCT
:***. ***** ***** ***** ***** ***** *****

human GGAGGTGGCTGGCTGCAAGTGTGACGGGGCACCTTCGGCCGCTACTGCGAGGGCTCCGA
rabbit CCAGGTGGCTGACTGCAAGTGTGATGGGACACCTTTCGGCCGCTTCTGTGAGCGCTCCAA
***** . ***** ***** .***. ***** ***** .*** ** *****. *

human GGATGCCTGTGAGGAGCCGTGCTTCCCGAGTGTCCACTGCGTTCCTGGGAAGGGCTGCGA
rabbit GGACCCCTGTGAGGAGGAGTGTCTCCCTGGCGTGAGCTGCGTTCCTGAGCGAGGCTGCGA
*** ***** . ***** . * ** .. ***** . * .. *****

human GGCCTGCCCTCCAAACCTGACTGGGGATGGGCGGCACTGTGCGGCTCTGGGAGCTCTTT
rabbit GGCCTGCCCCATAGACATGACCGGAGACGGGCGGCACTGTGCAGCCCTGGAGAACTCCGA
***** . *. ** .*** ** . * *****. * *****. ** .*** :

human CCTGTGTCAGAACCAGTCTGCCCTGTGAATTACTGCTACAATCAAGGCCACTGCTACAT
rabbit CCTCTGTCAGAACCCTCTGCCCTGTGAATTACTGCCACAACCAGGGCCACTGCTACAT
*** ***** ** ***** ***** ** .*****

human CTCCAGACTCTGGGCTGTGACCCATGTGCACCTGCCCCCAGCCTTCACTGACAGCCG
rabbit TGCCCCGACGCTGAGCTGCCAGCCCTCCTGCACCTGCCCCCAGCCTTCACTGACGCCCC
. ***.**** *****: *****.***

human CTGCTTCCTGGCTGGGAACAACCTTCAGTCCAACCTGCAACCTAGAACTTCCCTTAAGAGT
rabbit CTGCTTCCTGGCTGGGAATAGCTTCACTCCAACCACCCATCAAGAGCTTCCCTTAAGAAC
***** * .***** ***** . * . * * :***.*****.

human CATCCAGCTCTTGCTCAGTGAAGAGGAAAATGCCTCCATGGCAGAAGTCAACGCCTCGGT
rabbit CATCCAGCTCTTGCTCATCGAAGATGAAAATGCCTCCGTAGCAGAGGTCAACGCCTCGGT
***** ***** ***** * .*****.*****

human GGCATACAGACTGGGGACCCTGGACATGCGGGCCTTCTCCGCAACAGCCAAGTGAACG
rabbit GGCCTACAGGCTGGGGACCCTGGACGTGCGTGCCTTCTCTGGAACAGCCTAGTGAAC
.**.*****.*** ***** * *****:*****

human AATCGATTCTGCAGCACCAGCCTCGGGAAGCCCCATCCAACACTGGATGGTCATCTCGGA
rabbit AATCGCCTCTCCGGCCCCGGCTCGGGAAGCCTCATTACGCGCTGGAAGGTCACCTCGCA
*****. *** * .**.* * ***** ***** ** * . * .*****:***** ***** *

human GTTCCAGTACCGCCTCGGGGCCCGTATTGACTTCCTGAACAACCAGCTGCTGGCCG
rabbit TTTCCAGTACCGCCTCAGGGCCCTGTATCGACTTCCTCAACAACCGGCTTACAGGAGGC
***** ***** ***** ***** ***** .*** * :** .**

human GGTGGTGGAGGCGTTCTTATACCACGTTCCACGGAGGAG-----TGAGGAGCC
rabbit AGTGGTGCAGGCCTTCTTCTGCAGGCTCAGAGGAGGAGGTGGAAGAGGAGCGAGGGGCC
.***** ***** ***** . : ** * ** . .***** *****.***

human CAGGAACGACGTGGTCTTCCAGCCATCTCCGGGAAGACGTGCGGATGTGACAGCCCT
rabbit CAGGAACAACGTGCTCTTCTACCCATCTCAAGGGTGGACGTGCATGATCTCGCAGCGCT
*****.***** ***** * ***** .***:*****. *** * .**** **

human GAACGTGAGCAGGCTGAAGGCTTACTTCAGATGCGATGGCTACAAGGGCTACGACCTGGT
rabbit GAATGTGAGCAGGCTGGAGACATACCTCAAATGCAATGGCTACGAGGGCTACCACCTGAT
*** ***** .**.*:*** ***.****.*****.***** *****. *

human CTACAGCCCCAGAGCGGCTTCACCTGCGTGTCCCCGTGCAGTAGGGGCTACTGTGACCA
rabbit CTACGGCCCCAGAGCGGCTTCACCTGCACGTCCCCGTGCACCGAGGGCTACTGTGACCA
.**.***** ..*****

human TGGAGGCCAGTGCCAGCACCTGCCAGTGGGCCCCGTGCAGCTGTGTGTCCTTCTCCAT
rabbit CG-AGGCCAGTGCCAGCACTGCCTGA-----
* ***** * *

human CTACACGGCCTGGGGCGAGCACTGTGAGCACCTGAGCATGAAACTCGACGCGTTCTTCGG
rabbit -----

human CATCTTCTTTGGGGCCCTGGGGCCCTTTGCTGCTGGGGTTCGGGACGTTTCGTGGTCT
rabbit -----

human GCGCTTCTGGGGTTGCTCCGGGGCCAGGTTCTCCTATTTCTGAACTCAGCTGAGGCCTT
rabbit -----

human GCCTTGAAGGGCAGCTGTGGCCTAGGCTACCTCAAGACTCACCTCATCCTTACCGCACA
rabbit -----

human TTTAAGGCGCCATTGCTTTTGGGAGACTGGAAAAGGAAGGTGACTGAAGGCTGTCAGGA
rabbit -----

human TTCTTCAAGGAGAATGAATACTGGGAATCAAGACAAGACTATACCTTATCCATAGGCGCA
rabbit -----

human GGTGCACAGGGGAGGCCATAAAGATCAAACATGCATGGATGGGTCTCACGCAGACACA
rabbit -----

human CCCACAGAAGGACACTAGCCTGTGCACGCGCGCGTGCACACACACACACACACAGGAG
rabbit -----

human TTCATAATGTGGTGATGGCCCTAAGTTAAGCAAAATGCTTCTGCACACAAAACCTCTCTGG
rabbit -----

human TTTACTTCAAATTAACCTCTATTTAAATAAAGTCTCTCTGACTTTTTGTGTCTCCAAAAAA
rabbit -----

human AAAAAAAAAA
rabbit -----

Underline fields are primer sequences we used.

Supplemental Information 3.

CLUSTAL 2.1 multiple sequence alignment

Muc5ac

human	GGGCACTCTTCCCGCCGTCCACACAATGAGTGTTGGCCGGAGGAAGCTGGCCCTGCTCT
rabbit	-----
human	GGGCCCTGGCTCTCGCTCTGGCCTGCACCCGGCACACAGGCCATGCCAGGATGGCTCCT
rabbit	-----
human	CCGAATCCAGCTACAAGCACCACCTGCCCTCTCTCCTATCGCCCGGGGCCAGCGGGG
rabbit	-----
human	TCCCGCTCCGTGGGGCGACTGTCTTCCCATCTCTGAGGACCATCCCTGTGGTACGAGCCT
rabbit	-----CCTCCAATGGCCGCGG----TTGCTTCGGCCACAGCCC
	* ** * * * * * * * * * * * * * * *
human	CCAACCCGGCGCACAACGGGCGGTGTGCAGCACCTGGGGCAGTTCCAACAAGACCT
rabbit	CGGACCCCGTGCACAACGGCCGGTGTGCAGCACCTGGGGCGACTTCCAACAAGACCT
	* **** * ***** ***** ***** ***** *****
human	TCGACGGCGACGTCTTCCGCTTCCCGGCCTCTGCAACTACGTGTTCTCCGAGCACTGCG
rabbit	TCGACGGCGCCGTCTTCCGCTTCCCGGCCTCTGCAACTACGTGTTCTGCGCACTGCG
	***** ***** ***** ***** * *****
human	GTGCCGCTACGAGGATTTAACATCCAGCTACGCCGAGCCAGGAGTCAGCGGCCCCA
rabbit	GCGGCGCCTACGAGGACTTCAACGTGCAGCTGCGGCGCAGCCGAGGACGGCGCTGTGG
	* * ***** * * * * * * * * * * * * * * *
human	CGCTGAGCAGGTCCTCATGAAGGTGGATGGCGTGGTCATCCAGCTGACCAAGGCTCCG
rabbit	CCCCGAGCAGGTCATCATGAAGTGGAGGCCTGGTGGTCGAGCTCACCAGTCACTCCG
	* * ***** ***** * * * * * * * * * * * * * * *

human TCCTGGTCAACGGCCACCCGGTCTGCTGCCCTTCAGCCAGTCTGGGGTCTCATTGAGC
rabbit TCCTGGTCAGCGGCCGCCGGTGCAGCTGCCCTTCAGCCAGGCGGGGTTTCATAGAGC
***** ***** * ***** * ***** *
human AGAGCAGCAGCTACACCAAGGTGGAGGCCAGGCTGGGCCTTGCCTCATGTGGAACCAGC
rabbit GCAGCAGCAGCTCCCTGAAGGTGGTGGCCAAGCTGGGCCTGGTCTTCATGTGGAACCAGG
***** * ***** ***** * ***** *
human ATGACAGCCTGCTGCTGGAGCTGGACACCAATACGCCAACAAGACCTGTGGGCTCTGTG
rabbit ACGACAGCCTCCTGCTGGAGCTGGACTCCAAGTTCGCCAACCAGACCTGCGGGCTCTGTG
* ***** ***** ***** * ***** *****
human GGGACTTCAACGGGATGCCCGTGGTCAGCGAGCTCCTCTCCACAACACCAAGCTGACAC
rabbit GAGACTTCAACGGCATCCCCGGTCCAGCGAGTTCCTGTCCACAACACCAGGCTGACCC
* ***** ** ***** * ***** ***** *
human CCATGGAATTCGGAACCTGCAGAAGATGGACGACCCACGGAGCAGTGTGAGGACCCCTG
rabbit CCGTGGAGTTCGGAACCTGCAGAAGCTGGATGGCCCCATGGAGCAGTGCAGGACCCGG
** **** ***** ***** ***** * ***** ***** *
human TCCCTGAACCCCGAGGAAGTCTCCACTGGCTTTGGCATCTGTGAGGAGCTCCTGCACG
rabbit CCCCAGAAAACAAGAGGAAGTCTCCAC-AGCCCCGGT-----GAGCCCCTGCGTG
*** ** * ***** ** * ***** *
human GCCAG--CTGTTCTCTGGCTGCGTGGCCCTGGTGGACGTGGCAGCTACCTGGAGGCTTG
rabbit GAGGGGGCGGGCGGGGGTTGCGGGGACCCTACG-----CGG--GGTGCCTCGAG-CTTG
* * * * * ** ***** * * * * *
human CAGGCAAGACCTCTGCTTCTGTGAAGACACCGACCTGCTCAGCTGCGTCTGCCACACCCT
rabbit GACTCCAGAGC---GCTCCCGGGC----CGACCAGNCGACCT----CTGCCGT-----
* * *** * *** * * * ***** * * * *
human TGCCGAGTACTCCCGCAGTGCACCCATGCAGGGGGT--TGCCCCAGGACTGGCGGGG
rabbit ----GAGTGCCCCCGCCCGCCCAACCCGGCAGGCTGGCGGCCACGCCGGCGCAGC
**** * *** ** ** * * * * * * * * * * * * * *

human CCTGACTTCTGCCCCAGAAGTGCCCAACAACATGCAGTACCACGAGTGCCGCTCCCC
rabbit CCTGAC-----GTGTCCCACGACATGGAATACCACGAGTGCCGCTCACC
***** ** ** * ***** * *****

human TGTGCAGACACCTGCTCCAACCAGGAGCACTCCCGGCCTGTGAGGACCACTGTGTGGCC
rabbit TGCGCCGACACCTGCTCCAACCCCGAGCGCTCCAGCTCTGCGAGGACCACTGCGTGGCC
** * ***** ** * ***** * ** ***** *****

human GGCTGCTTCTGCCCTGAGGGGACGGTGCTTGACGACATCGGCCAGACCGGCTGTGTCCCT
rabbit GGCTGCTTCTGCCCGAGGGGACGGTGCTGGACGACATCGGCCAGCCGGCTGTGTCCCC
***** ***** ***** *****

human GTGTCAAAGTGTGCCTGCGTCTACAACGGGGCTGCCTATGCCCCAGGGGCCACCTACTCC
rabbit GTGACCCAGTGCCTGCACCTACAACGGGGCCACCTACGCGTCAGGAGCCAAATACTCC
** * ***** ***** ***** ** * ***** *****

human ACAGACTGCACCAACTGCACCTGCTCCGGAGGCCGGTGGAGCTGCCAGGAGTTCCATGC
rabbit ACAGACTGCACCGAGTGCACCTGCTCCGGAGGCCGGTGGAGCTGCCAGGACATCCCATGT
***** * ***** ***** ***** * *****

human CCGGTACCTGCTCTGTGCTTGGAGGTGCCCACTTCTCAACGTTTACGGGAAGCAATAC
rabbit CCAGGCACCTGCTCGGTGCTGGGGGGCGCCCACTTCTCCACGTTGACGAGAGGCAGTAC
** * ***** ***** ** * ***** ***** ** * *****

human ACGGTGCACGGGACTGCAGCTATGTGCTGACCAAGCCCTGTGACAGCAGTGCCTTCACT
rabbit ACGGTGCACGGGACTGCAGCTACGTGCTGGCCAAGTCTGTAACAGCAGCACCTTCAAC
***** ***** ***** ***** ***** ***** *****

human GTACTGGCTGAGCTGCGCAGGTGCGGGCTGACGGACAGCGAGACCTGCCTGAAGAGCGTG
rabbit GTGCTGGCGGAGCTGCGCAGGTGCGGGCTGACGGACAGCGAGACCTGCCTGAAGAGCGTG
** ***** *****

human ACACTGAGCCTGGATGGGGTGCAGACGGTGGTGGTCAAGGCCAGTGGGAAGTGTTCC
rabbit ACGCTGAACCTGGACGGGGGCGAGACGGTCGTGGTGGTCAAGGCCAGCGGGAGGTGTTT
** ***** ***** ***** ***** ***** ***** *****

human CTGAACCAGATCTACACCCAGCTGCCATCTCTGCAGCCAACGTACCATCTTCAGACCC
rabbit GTGAACCATATCTACACCCAGCTGCCTGTCTCCGCAGGTGAG-----
***** ***** ***** **

human TCAACCTTCTTCATCATCGCCAGACCAGCCTGGGCCTGCAGCTGAACCTGCAGCTGGTG
rabbit -----CTGGGCCTGCAGTTGGACATCCAGCTGGTG
***** ** * *

human CCCACCATGCAGCTGTTTCATGCAGCTGGCGCCAAGCTCCGTGGGCAGACCTGCGGTCTC
rabbit CCCACCATGCAGGTGGCTGTGAGGCTGGAGCCCGAGTTCAGGGCCGGACCTGCGGTCTC
***** ** * *****

human TGTGGAACTTCAACAGCATCCAGGCCGATGACTCCGGACCCTCAGTGGGGTGGTGGAG
rabbit TGCGGGAATTTCAACCGCGTGCAGGCAGACGACTCCGGGCCATCAGCGGTGTGGTGGAG
** ***** ** * ***** ** ***** ** *****

human GCCACCGCTGCGGCCTTCTTCAACACCTTCAAGACCCAGGCCCTGCCCAACATCAGG
rabbit GGCACGGCCGCGCCTTCTTCAACACCTTCAAGACCCATGCCTCCTGGCCCAACGTCAAG
* ** * * ***** ***** **

human AACAGCTTCGAGGACCCCTGCTCTCTGAGCGTGGAGAATGAGAAGTATGCTCAGCACTGG
rabbit AACAACTCGAGGACCCCTGCTCCCTCAGCGTGGAGAACGAGAAGTTTCCCAGCACTGG
*** ***** ** ***** ***** ** *****

human TGCTCGCAGCTGACCGATGCCGACGGCCCTTCGGCCGGTGCCATGCTGCCGTGAAGCCG
rabbit TGCTCGCGGTGACAGACGCCAAGGCCCTTGGCCAGTGCCACTCCGCCGTGAGCCCT
***** ***** ** * ***** * ** ***** * ***** **

human GGCACCTACTACTCGAACTGCATGTTTGACACCTGCAACTGTGAGCGGAGCGAGACTGC
rabbit GGCACCTACCACTCGAACTGCCTGTTTGACACCTGCAACTGTGAGAAGACTGAGGACTGC
***** ***** ***** ** *****

human CTGTGCGCCGCGCTGCCTCCTACGTGCACGCCTGTGCCGCCAAGGGCGTGCTGCTCGGC
rabbit CTGTGTGCGCGCTGCCTCCTACGTGCACGCCTGTGCCGCCAAGGGCGTGCTGCTCGGT
***** ** ***** ***** ***** ***** ***** ** *

human GGCTGGAGGGACGGCGTCTGCACGAAGCCTATGACCACTTGCCCCAAGTCAATGACGTAC
rabbit GGCTGGCGGGACGGCGTCTGCACCAAGCACACGAGCAGCTGCCCAAGTCCATGACCTAC

human CACTACCATGTCAGCACCTGCCAGCCCACCTGCCGCTCCCTGAGCGAGGGGGACATCACC
rabbit CACTACCACATCAGCACCTGCCAGCCCACCTGCCGCGCCGGAGCGAGCCCGACCTCACC

human TGCAGTGTGGCTTCATCCCCGTGGATGGCTGCATCTGTCCAAGGGCACCTTCCTGGAC
rabbit TGCGGCGTCAGCTTCGTGCCGTGGACGGCTGCGCCTGCCCGAGGGCACCTTCCTGGAC
*** * **
human GACACGGGCAAGTGTGTGCAGGCCAGCAACTGTCCCTGCTACCACAGAGGCTCCATGATC
rabbit GACGTGGGCAAGTGTGTGGAGGCCACCAGCTGTCCCTGCTACCACAGCGGCTCCGTGGTC
*** *****
human CCCAATGGGGAGTCGGTGCACGACAGCGGGCTATCTGCACCTGCACACATGGGAAGCTG
rabbit CCCAACGGCGAGTCTGTGCATGACAGTGGGGCCGTCTGCACCTGCACACAGGGGACGCTG

human AGCTGCATCGGAGGCCAAGCCCCGCCCAAGTGTGTGCTGCGCCATGGTGTCTTTGAC
rabbit ACCTGCATTGGAGGCCAGCTCCGGCCCCAGTGTGTGACGCACCCATGGTCTTCTCGAC
* *****
human TGCCGAAATGCCACGCCCGGGGACACAGGGGCTGGCTGTCAGAAGAGCTGCCACACACTG
rabbit TGCCGCAACGCCACGGCCGGGGCCACGGGGGCTGGCTGTCAGAAGAGCTGTACACCCTG

human GACATGACCTGTTACAGCCCCAGTGTGTGCCTGGCTGTGTGCCCCGATGGGCTGGTG
rabbit GACATGGAGTGTACAGCTCCAGTGCCTGCCCGGCTGCGTGTGCCCGACGGGCTGGTG

human GCGGATGGCGAGGGCGGCTGCATCACTGCGGAGGACTGCCCTGCGTGCACAATGAGGCC
rabbit GCCGACGGCCTCGGCGGCTGCATCGCTGAGGAAGAATGTCCCTGTGTGCACAACGAGGCC
** ** **

human AGCTACGGGCCGGCCAGACCATCCGGGTGGGCTGCAACACCTGCACCTGTGACAGCAGG
rabbit AGCTACGGCCCCGGAGAGACCATCTGGACGGGTGCAACACCTGCACCTGTGAGAACAGG
***** * **** ***** ** *** ***** * ****

human ATGTGGCGGTGCACAGATGACCCCTGCCTGGCCACCTGCGCCGTGTACGGGGACGGCCAC
rabbit AAGTGGCGCTGCTCGGACGAGCCCTGCCTGGCCACCTGCGCCGTATACGGG-ACGGTCAC
* ***** ** * ** * ***** ***** ***** *** **

human TACCTCACCTT-CGACGGACAGAGCTACAGCTTCAACGGAGACTGCGAGTACACGCTGGT
rabbit TACTTCACCTTTGACGG---GGGCTACAGCTTCAGTGGTACTGCGAGTACACGCTGTT
*** ***** ***** * ***** ** ***** *

human GCAGAACCCTGTGGCGGAAAGACAGCACCAGGACTCCTTTGTTGTACCGAGAA
rabbit GCAGGACCAGTGGGTGGGAACGTCAGCGCCAGGACGCTTCCGCGTCGTACGGAGAA
***** **** * ** ***** * ***** ***** ** * ***** *****

human CGTCCCCTGCGGCACCACAGGGACCACCTGCTCCAAGGCCATCAAGATTTTCTGGGGG
rabbit CGTCCCCTGCGGCACCACAGGGACCACCTGCTCCAAGGCCATCAAGATCTTCTGGGGAG
***** ***** *

human CTTGAGCTGAAGCTAAGCCATGGGAAGGTGGAGGTGATCGGGACGGACGAGAGCCAGGA
rabbit CTACGAGCTGAAGCTGAGTGACGGGAAGGTGGAGGTGGTGGAGAAAGGCAAGGGCCAGGA
** ***** * * ***** * * * * * *****

human GGTGCCATACCCATCCGGCAGATGGGCATCTACCTGGTGGTGGACACCGACATTGGCCT
rabbit GCCGCCCTACTCCATCCGCCAGATGGGCATCTTCTGGTGGTGGACACCGACGCTGGCCT
* *** ** ***** ***** ***** ***** *****

human GGTGCTGCTGTGGGACAAGAAGACCAGCATCTTCATCAACCTCAGCCCGAGTTCAAGGG
rabbit GGTGCTGCTGTGGGACAGGAGGACCAGCCTCTTCTCAGGCTCAGCCCGAGTTCAAGGG
***** ***** ** ***** ***** ** *****

human CAGGGTCTGCGGCCTGTGTGGAACTTCGACGACATCGCCGTTAATGACTTTGCCACGCG
rabbit CAGGGTCTGTGCCTGTGCGGAACTTCGACGACAACGCCATGAACGACTTCACCACGCG
***** ***** ***** ***** * * ***** *****

human GAGCCGGTCTGTGGTGGGGACGTGCTGGAGTTTGGGAACAGCTGGAAGCTCTCCCCTC
rabbit GAGCCAGTCGGTGGTGGGCGACGCGCTGGAGTTCGGGAACAGCTGGAAGTTCTCGCCATC
***** ** ***** ** ** ***** ***** ***** ***** ** **

human CTGCCAGATGCCCTGGCGCCAAGGACCCCTGCACGGCCAACCCCTTCGCAAGTCCTG
rabbit CTGCCGGACGCGCCGGCACCCAGGACTCCTGCGCCGCAACCCCTACCGCAAGTCCTG
***** ** * * ** ***** ***** ***** * ***** *****

human GGCCAGAAGCAGTGCAGCATCCTCCACGGCCCCACCTTCGCCGCTGCCACGCACACGT
rabbit GGCCAGAAGCAGTGCAGCATCGTCCACAGCGCCACCTTCGCTGCCTGCCACGCCACGT
***** ***** ***** ** ***** ***** ***** *****

human GGAGCCGGCCAGTACTACGAGGCTGCGTGAACGACGCGTGCCTGCGACTCCGGGGG
rabbit GGAGCCTGCCGAGTACTATGAGGCTGCGTGCAGGACGCTGCGCTGCGACTCGGGGGG
***** ** ***** ***** ***** * ***** ***** ***** ** **

human TGA CTGCGAGTGCTTCTGCACGGCTGTGGCCGCTACGCCAGGCCTGCCATGAAGTAGG
rabbit CGACTGCGAGTGCTTCTGCACGGCTGTGGCCGCTACGCCAGGCCTGCCACGAGGTGGG
***** ***** ***** ***** ***** ***** ** ** **

human CCTGTGTGTCTGCGGACCCGAGCATCTGCCCTCTGTTCTGCGACTACTACAACCC
rabbit CGTGTGCGTGTCTGAGGAGCCCGACGTGTGCCGCTGTTCTGTGACTTCTACAAAAA
* **** ***** ** ** * * ***** ***** ***** *****

human CGAAGGCCAGTGCAGTGGCACTACCAGCCCTGCGGGGTGCCCTGCCTGCGACCTGCCG
rabbit CGAGGGCCAGTGCAGTGGCACTACCAGCCCTGCGGGGCGCCCTGCATGCGGACGTGCCG
** ***** ***** ***** ***** ***** ** ** *****

human GAACCCCGTGGAGACTGCCTGCGGGACGTCTGGGCCTGGAAGGCTGCTACCCCAAGTG
rabbit GAACCCAGTGGAGAGTGC-----
***** ***** **

human CCCACCAGAGGCTCCCATCTTTGATGAGGACAAGATGCAGTGTGTGGCCACCTGCCAAC
rabbit -----

human CCCGCCTCTGCCACCACGGTGCCACGTCCATGGGAAGTCCTACCGGCCAGGTGCAGTGGT
rabbit -----

human GCCCTCGGACAAGAAGTCCAGTCCTGCCTTTGTACGGAGCGCGGGTGGAGTGCACCTA
rabbit -----

human CAAAGCTGAGGCCTGTGTCTGCACCTACAATGGACAGCGCTTCCACCCAGGGGACGTCAT
rabbit -----

human CTACCACACGACGGATGGCACGGGTGGCTGCATCTCCGCCCGCTGCGGGGCCAACGGCAC
rabbit -----

human CATTGAGAGGAGGGTCTACCCCTGCAGCCCCACCACCCTGTCCCCCAACCACCTTCTC
rabbit -----

human CTTCTCCACACCCCGCTTGTGCTGAGCTCCACGCACACCCCAAGCAATGGCCCAAGCAG
rabbit -----

human CGCGCACACAGGCCCTCCGAGCAGCGCCTGGCCCACCACAGCAGGCACTTCTCCAGGAC
rabbit -----

human GAGGCTGCCACAGCCTCTGCCTCACTGCCGCCGTCTGTGGGAAAAGTGCCTGTGGTC
rabbit -----

human GCCATGGATGGATGTCAGCCGCCCTGGACGGGGCACGGACAGCGGTGACTTCGACACACT
rabbit -----

human GGAGAACCTCCGCGCCCATGGGTACCGGGTGTGCGAATCACCCAGGTCGGTGGAGTGCCG
rabbit -----

human AGCTGAGGACGCCCCGGAGTGCCGCTCCGAGCCCTGGGGCAGCGTGTGCAGTGCAGCCC
rabbit -----

human GGATGTGGGGCTGACCTGTCGTAACAGGGAGCAGGCATCGGGGCTCTGCTACAACTACCA
rabbit -----

human GATCAGGGTCCAGTGTGCACGCCCTAGCCTGCTCCACCTCTAGCAGTCCAGCCCAGAC
rabbit -----

human CACTCCTCCAACCTACCTCCAAGACCACTGAAACCCGGGCCTCAGGCTCCTCAGCTCCCAG
rabbit -----

human CAGCACACCTGGCACCGTGTCTCTCTCTACAGCCAGGACGACACCTGCCCCAGGTACCGC
rabbit -----

human TACCTCTGTCAAAAAAATTTCTCAACTCCCAGCCCTCGCCAGTGCCGGCAACATCAAC
rabbit -----

human ATCATCCATGTCGACCACGACCCCGGGGACCTCTGTGGTCTCCAGCAAGCCCACCCTCAC
rabbit -----

human TGAGCCCAGCACATCCTCCTGCCTGCAGGAGCTTTGCACCTGGACCGAGTGGATCGATGG
rabbit -----

human CAGCTACCCTGCTCCTGGAATAAATGGTGGAGATTTTGACACATTTCAAATTTGAGAGA
rabbit -----

human CGAAGGATACACATTCTGTGAAAGTCCTCGAAGCGTGCAGTGCCGGGCAGAGAGCTTCCC
rabbit -----

human CAACACGCCGCTGGCAGACCTGGGGCAGGACGTCATCTGCAGCCACACAGAGGGGCTGAT
rabbit -----

human TTGCCTGAACAAGAACCAGCTCCCACCCATCTGCTACAACATGAGATCCGCATCCAGTG
rabbit -----

human TTGCGAGACGGTGAACGTGTGCAGAGACATCACCAGACCGCCAAGACCGTCGCAACGAC
rabbit -----

human ACGGCCGACTCCACATCCAACCGGAGCTCAGACCCAGACCACCTTACCACACACATGCC
rabbit -----

human CTCGGCCTCCACAGAGCAACCCACGGCAACCTCCAGGGGTGGGCCACAGCAACCAGCGT
rabbit -----

human CACACAGGGCACCCACACCACACAGTACCAGAACTGTCATCCCCGGTGCACCTGGAC
rabbit -----

human AAAGTGGTTCGACGTGGACTTCCCGTCCCCGGACCCCATGGTGGAGACAAGGAAACCTA
rabbit -----

human CAACAACATCATCAGGAGTGGGGAAAAATCTGCCGCCGACCTGAGGAGATCACCAGGCT
rabbit -----

human CCAGTGCCGAGCCAAGAGCCACCCAGAGGTGAGCATCGAACACCTGGGCCAGGTGGTGCA
rabbit -----

human GTGCAGCCGGGAAGAGGGCCTGGTGTGCCGGAACCAGGACCAGCAGGGACCCTTCAAGAT
rabbit -----

human GTGCCTCAACTACGAGGTGCGTGTGCTCTGCTGCGAGACCCCCAGAGGCTGCCCCGTGAC
rabbit -----

human CTCCACACCTGTGACAGCTCCTAGCACCCCTAGTGGGAGAGCCATCAGCCCAACTCAGAG
rabbit -----

human CACCTCCTCTTGGCAGAAATCCAGGACAACCACTTTGGTGACAACCAGCACAACCTCCAC
rabbit -----

human TCCACAGACCAGTACAACCTATGCCATACAACCAGCACAACCTCTGCTCCTACAGCCAG
rabbit -----

human AACAACTCTGCTCCTACAACCAGAACAACCTCTGCCTCTCCAGCCAGCACAACCTCTGG
rabbit -----

human TCCTGGAAATACTCCCAGCCCTGTTCCCTACCACCAGCACAATCTCTGCTCCTACAACCTAG
rabbit -----

human CATAACCTCTGCCCTACAACCAGCACAACCTCTGCCCTACAAGCAGCACAACCTCTGC
rabbit -----

human TCCTACAACCAGCACAACCTCTGCCCTACAAGCAGCACAACCTCCAGTCCACAGACCAG
rabbit -----

human CACAACCTCGGCTCCTACAACCAGCACAACCTTCTGGTCCTGGAACACCCCAAGCCCTGT
rabbit -----

human TCCCAGACCAGC
rabbit -----

Underline fields are primer sequences we used.

Supplemental Information 4.

CLUSTAL 2.1 multiple sequence alignment

Muc16

human AAGCGTTGCACAATTCCCCAACCTCCATACATACGGCAGCTCTTCTAGACACAGGTTTT
rabbit -----

human CCCAGGTCAAATGCGGGGACCCAGCCATATCTCCACCCTGAGAAATTTTGGAGTTTCA
rabbit -----

human GGGAGCTCAGAAGCTCTGCAGAGGCCACCCTCTCTGAGGGGATTCTTCTTAGACCTCCAT
rabbit -----

human CCAGAGGCAAATGTTGACCTGTCCATGCTGAAACCCTCAGGCCTCCTGGGTCATCTTCT
rabbit -----

human CCCACCCGCTCCTTGATGACAGGGAGCAGGAGCACTAAAGCCACACCAGAAATGGATTCA
rabbit -----

human GGACTGACAGGAGCCACCTTGTCACCTAAGACATCTACAGGTGCAATCGTGGTGACAGAA
rabbit -----

human CATACTCTGCCCTTTACTTCCCAGATAAGACCTTGGCCAGTCCTACATCTTCGGTTGTG
rabbit -----

human GGAAGAACCACCCAGTCTTTGGGGGTGATGTCCTCTGCTCTCCCTGAGTCAACCTCTAGA
rabbit -----

human GGAATGACACACTCCGAGCAAAGAACCAGCCCATCGCTGAGTCCCCAGGTCAATGGAAC
rabbit -----

human CCCTCTAGGAACTACCCTGCTACAAGCATGGTTTCAGGATTGAGTCCCCAAGGACCAGG
rabbit -----

human ACCAGTTCACAGAAGGAAATTTACCAAAGAAGCATCTACATACACACTCACTGTAGAG
rabbit -----

human ACCACAAGTGGCCAGTCACTGAGAAGTACACAGTCCCCTGAGACCTCAACAACGAA
rabbit -----

human GGTGACAGCACAGAGACCCCTGGGACACAAGATATATTCTGTAAAAATCACATCTCCA
rabbit -----

human ATGAAAACATTTGCAGATTCAACTGCATCCAAGGAAAATGCCCCAGTGTCTATGACTCCA
rabbit -----

human GCTGAGACCACAGTTACTGACTCACATACTCCAGGAAGGACAAACCCATCATTGGGACA
rabbit -----

human CTTTATTCTTCCTTCCTTGACCTATCACCTAAAGGGACCCCAAATTCCAGAGGTGAAACA
rabbit -----

human AGCCTGGAACGATTCTATCAACCACTGGATATCCCTTCTCCTCTCCTGAACCTGGCTCT
rabbit -----

human GCAGGACACAGCAGAATAAGTACCAGTGCGCCTTTGTCATCATCTGCTTCAGTTCTCGAT
rabbit -----

human AATAAAATATCAGAGACCAGCATATTCTCAGGCCAGAGTCTCACCTCCCCTCTGTCTCCT
rabbit -----

human GGGGTGCCCGAGGCCAGAGCCAGCACAATGCCCAACTCAGCTATCCCTTTTTCCATGACA
rabbit -----

human CTAAGCAATGCAGAAACAAGTGCCGAAAGGGTCAGAAGCACAATTCCTCTCTGGGGACT
rabbit -----

human CCATCAATATCCACAAAGCAGACAGCAGAGACTATCCTTACCTTCCATGCCTTCGCTGAG
rabbit -----

human ACCATGGATATACCCAGCACCCACATAGCCAAGACTTTGGCTTCAGAATGGTTGGGAAGT
rabbit -----

human CCAGGTACCCTTGGTGGCACCAGCACTTCAGCGCTGACAACCACATCTCCATCTACCACT
rabbit -----

human TTAGTCTCAGAGGAGACCAACCCATCACTCCACGAGTGAAAGGAAACAGAAGGAACT
rabbit -----

human TTGAATACATCTATGACTCCACTTGAGACCTCTGCTCCTGGAGAAGAGTCCGAAATGACT
rabbit -----

human GCCACCTTGGTCCCCTCTAGGTTTTACAACCTTTGACAGCAAGATCAGAAGTCCATCT
rabbit -----

human CAGGTCTCTTCATCCCACCCAACAAGAGAGCTCAGAACCACAGGCAGCACCTCTGGGAGG
rabbit -----

human CAGAGTTCAGCACAGCTGCCACGGGAGCTCTGACATCCTGAGGGCAACCACTTCCAGC
rabbit -----

human ACCTCAAAGCATCATCATGGACCAGTGAAAGCACAGCTCAGCAATTTAGTGAACCCAG
rabbit -----

human CACACACAGTGGGTGGAGACAAGTCCTAGCATGAAAACAGAGAGACCCCAGCATCAACC
rabbit -----

human AGTGTGGCAGCCCTATCACCATTCTGTTCCCTCAGTGGTCTCTGGCTTACCACCCTG
rabbit -----

human AAGACCAGCTCCACAAAAGGGATTTGGCTTGAAGAAACATCTGCAGACACACTCATCGGA
rabbit -----

human GAATCCACAGCTGGCCCAACCACCCATCAGTTTGTGTTCCCACTGGGATTTCAATGACA
rabbit -----

human GGAGGCAGCAGCACCAGGGGAAGCCAGGGCACAACCCACCTACTCACCAGAGCCACAGCA
rabbit -----

human TCATCTGAGACATCCGCAGATTTGACTCTGGCCACGAACGGTGTCCCAGTCTCCGTGTCT
rabbit -----

human CCAGCAGTGAGCAAGACGGCTGCTGGCTCAAGTCTCCAGGAGGGACAAAGCCATCATAT
rabbit -----

human ACAATGGTTTCTTCTGTCATCCCTGAGACATCATCTCTACAGTCCCTCAGCTTTCAGGGAA
rabbit -----

human GGAACCAGCCTGGGACTGACTCCATTAACACTAGACATCCCTTCTCTTCCCCTGAACCA
rabbit -----

human GACTCTGCAGGACACACCAAGATAAGCACCAGCATTCTCTGTTGTCATCTGCTTCAGTT
rabbit -----

human CTTGAGGATAAAGTGTGTCAGCGACCAGCACATTCTCACACCACAAAGCCACCTCATCTATT
rabbit -----

human ACCACAGGGACTCCTGAAATCTCAACAAAGACAAAGCCCAGCTCAGCGTTCTTTCCTCC
rabbit -----

human ATGACCCTAAGCAATGCAGCAACAAGTCTGAAAGAGTCAGAAATGCAACTCCCCTCTG
rabbit -----

human ACTCATCCATCTCCATCAGGGGAAGAGACAGCAGGGAGTGTCTCACTCTCAGCACCTCT
rabbit -----

human GCTGAGACTACAGACTCACCTAACATCCACCCAACCTGGGACACTGACTTCAGAATCGTCA
rabbit -----

human GAGAGTCCTAGCACTCTCAGCCTCCCAAGTGTCTCTGGAGTCAAACCACATTTTCTTCA
rabbit -----

human TCTACTCCTTCCACTCATCTATTTACTAGTGGAGAAGAAACAGAGGAAACTTCGAATCCA
rabbit -----

human TCTGTGTCTCAACCTGAGACTTCTGTTTCCAGAGTAAGGACCACCTTGGCCAGCACCTCT
rabbit -----

human GTCCCTACCCAGTATTCCCACCATGGACACCTGGCCTACACGTTCACTCAGTTCTCT
rabbit -----

human TCATCCCACCTAGTGAGTGAGCTCAGAGCTACGAGCAGTACCTCAGTTACAACTCAACT
rabbit -----

human GGTTCACTCTTCTCTAAAATATCTCACCTCACTGGGACGGCAACAATGTCACAGACCAAT
rabbit -----

human AGAGACACGTTTAATGACTCTGCTGCACCCCAAAGCACAACCTGGCCAGAGACTAGTCCC
rabbit -----

human AGATTCAAGACAGGGTTACCTTCAGCAACAACCACTGTTTCAACCTCTGCCACTTCTCTC
rabbit -----

human TCTGCTACTGTAATGGTCTCTAAATTCACCTTCTCCAGCAACTAGTTCATGGAAGCAACT
rabbit -----

human TCTATCAGGGAACCATCAACAACCATCCTCACAACAGAGACCACGAATGGCCCAGGCTCT
rabbit -----

human ATGGCTGTGGCTTCTACCAACATCCCAATTGGAAAGGGCTACATTACTGAAGGAAGATTG
rabbit -----

human GACACAAGCCATCTGCCATTGGAACCACAGCTTCCTCTGAGACATCTATGGATTTTACC
rabbit -----

human ATGGCCAAAGAAAGTGTCTCAATGTCAGTATCTCCATCTCAGTCCATGGATGCTGCTGGC
rabbit -----

human TCAAGCACTCCAGGAAGGACAAGCCAATTCGTTGACACATTTTCTGATGATGTCTATCAT
rabbit -----

human TTAACATCCAGAGAAATTACAATACCTAGAGATGGAACAAGCTCAGCTCTGACTCCACAA
rabbit -----

human ATGACTGCAACTCACCTCCATCTCCTGATCCTGGCTCTGCTAGAAGCACCTGGCTTGGC
rabbit -----

human ATCTTGTCTCATCTCCTTCTTCTCCTACTCCCAAAGTCACAATGAGCTCCACATTTTCA
rabbit -----

human ACTCAGAGAGTCACCACAAGCATGATAATGGACACAGTTGAAACTAGTCGGTGGAAACATG
rabbit -----

human CCCAACTTACCTTCCACGACTTCCTTGACACCAAGTAATATTCCAACAAGTGGTGCCATA
rabbit -----

human GGAAAAAGCACCCCTGGTTCCCTTGGACACTCCATCTCCAGCCACATCATTGGAGGCATCA
rabbit -----

human GAAGGGGGACTTCCAACCCTCAGCACCTACCCTGAATCAACAAACACACCCAGCATCCAC
rabbit -----

human CTCGGAGCACACGCTAGTTCAGAAAGTCCAAGCACCATCAAACCTACCATGGCTTCAGTA
rabbit -----

human GTAAAACCTGGCTCTTACACACCTCTCACCTTCCCCTCAATAGAGACCCACATTCATGTA
rabbit -----

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rabbit -----

human ACAAGTTCAGCTCAGGTCTCTACCCCCACTCAGTGAGGACACTCAGAACCACAGAAAAC
rabbit -----

human CATCAAAGACAGAGTCCGCCACCCCAGCTGCTTACTCTGGAAGTCCTAAAATCTCAAGT
rabbit -----

human TCACCCAATCTCACCAGTCCGGCCACAAAAGCATGGACCATCACAGACACAACCTGAACAC
rabbit -----

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rabbit -----

human GCTCCAGGACCTGTCTCTGTAGTAATCCCTACCTCCCCTACCATTGGAAGCAGCACATTG
rabbit -----

human GAACTAACTTCTGATGTCCCAGGGGAACCCCTGGTCCTTGCTCCCAGTGAGCAGACCACA
rabbit -----

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rabbit -----

human GACCTTGATATTTCAAGTCCAAGTTCACCCATGAGTACATTTGCTATTTTTCCACCTATG
rabbit -----

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rabbit -----

human GATTCAACAACGTTGGATCAGCACCTAGGAATCAGGAGTTTGGGCAGAACTGGGGACTTA
rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

human AACACAACAACAGGGAGCAGTAGTAGTGGAGTCACCCTGGGCATAGCCCACCTTCCATA
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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

human ATTCACCTGAAGCCAGCAGCAGTCATTCTAACTCTCCTCCCTTGACAATATCTACACAC
rabbit -----

human AAGACCATCGCCACACAAACAGGTCTTCTGGGGTGACATCTCTTGGCCAAGTACCCTG
rabbit -----

human GACACATCAACCATAGCCACCTCAGCAGGAACTCCATCAGCCAGAACTCAGGATTTTGTA
rabbit -----

human GATTCAGAAACAACCAGTGTGCATGAACAATGATCTCAATGATGTGTTGAAGACAAGCCCT
rabbit -----

human TTCTCTGCAGAAGAAGCCAACCTCTCTCTTCTCAGGCACCTCTCCTTGTGACAACTCA
rabbit -----

human CCTTCTCCTGTAACCTCCACATTGCAAGAGCACAGTACCTCCTCTTGTTCCTGTGACC
rabbit -----

human TCAGTACCCACCCCTACACTGGCGAAGATCACAGACATGGACACAACTTAGAACCTGTG
rabbit -----

human ACTCGTTCACCTCAAAATTTAAGGAACACCTTGGCCACTTCAGAAGCCACCACAGATACA
rabbit -----

human CACACAATGCATCCTTCTATAAACACAGCAGTGGCCAATGTGGGGACCACCAGTTCACCA
rabbit -----

human AATGAATTCTATTTTACTGTCTCACCTGACTCAGACCCATATAAAGCCACATCCGCAGTA
rabbit -----

human GTTATCACTTCCACCTCGGGGGACTCAATAGTTTCCACATCAATGCCTAGATCCTCTGCG
rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

human AGGGCGACATCACAGGGTACCCTTACCTGGGACACATCAATCACAACCTCACAGGCAGGG
rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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rabbit -----

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human ATTCCAATTCTGACTCTTTCTCCTGGTGAACCAGAGACCACACCTTCAATGGCCACCAGT
rabbit -----

human CATGGGAAGAAGCCAGTTCTGCTATTCCAACCTCCAAGTGTTCACCTGGGGTACCAGGA
rabbit -----

human GTGGTGACCTCTCTGGTCACTAGTTCTAGGGCAGTGACTAGTACAACCTATTCCAATTCTG
rabbit -----

human ACTTTTTCTCTTGGTGAACCAGAGACCACACCTTCAATGGCCACCAGTCATGGGACAGAA
rabbit -----

human GCTGGCTCAGCTGTTCCAACCTGTTTTACCTGAGGTACCAGGAATGGTGACCTCTCTGGTT
rabbit -----

human GCTAGTTCTAGGGCAGTAACCAGTACAACCTCTTCCAACCTCTGACTCTTTCTCCTGGTGAA
rabbit -----

human CCAGAGACCACACCTTCAATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAACTGTTCCA
rabbit -----

human ACTGTTTCACCTGAGGTACCAGGAGTGGTGACCTCTCTGGTCACTAGTTCTAGTGGAGTA
rabbit -----

human AACAGTACAAGTATTCCAACCTCTGATTCTTTCTCCTGGTGAAGTAAAAACCACACCTTCA
rabbit -----

human ATGGCCACCAGTCATGGGGCAGAAGCCAGCTCAGCTGTTCCAACCTCCAACCTGTTTCACCT
rabbit -----

human GGGGTATCAGGAGTGGTGACCCCTCTGGTCACTAGTTCAGGGCAGTGACCAGTACAACCT
rabbit -----

human ATTCCAATTCTAACTCTTTCTTCTAGTGAGCCAGAGACCACACCTTCAATGGCCACCAGT
rabbit -----

human CATGGGGTAGAAGCCAGCTCAGCTGTTCTAACTGTTTCACCTGAGGTACCAGGAATGGTG
rabbit -----

human ACCTCTCTGGTCACTAGTCTAGAGCAGTAACCAGTACAACCTATTCCAACCTCTGACTATT
rabbit -----

human TCTTCTGATGAACCAGAGACCACAACCTCATTGGTCACCCATTCTGAGGCAAAGATGATT
rabbit -----

human TCAGCCATTCCAACCTTTAGCTGTCTCCCCTACTGTACAAGGGCTGGTGACTTCACTGGTC
rabbit -----

human ACTAGTTCTGGGTGAGAGACCAGTGCGTTTTCAAATCTAACTGTTGCCTCAAGTCAACCA
rabbit -----

human GAGACCATAGACTCATGGGTCGCTCATCCTGGGACAGAAGCAAGTTCTGTTGTTCCAACCT
rabbit -----

human TTGACTGTCTCCACTGGTGAGCCGTTTACAAATATCTCATTGGTCACCCATCCTGCAGAG
rabbit -----

human AGTAGCTCAACTCTTCCCAGGACAACCTCAAGGTTTTCCACAGTGAATTAGACACTATG
rabbit -----

human CCTTCTACAGTCACCAGTCCTGAGGCAGAATCCAGCTCAGCCATTTCAACAAC TATTTCA
rabbit -----

human CCTGGTATACCAGGTGTGCTGACATCACTGGTCACTAGCTCTGGGAGAGACATCAGTGCA
rabbit -----

human ACTTTTCCAACAGTGCCTGAGTCCCCACATGAATCAGAGGCAACAGCCTCATGGGTTACT
rabbit -----

human CATCCTGCAGTCACCAGCACAAACAGTCCCAGGACAACCCCTAATTATTCTCATAGTGAA
rabbit -----

human CCAGACACCACACCATCAATAGCCACCAGTCCTGGGGCAGAAGCCACTTCAGATTTTCCA
rabbit -----

human ACAATAACTGTCTCACCTGATGTACCAGATATGGTAACCTCACAGGTCAGTTCTGGG
rabbit -----

human ACAGACACCAGTATAACTATTCCAACCTGACTCTTTCTTCTGGTGAGCCAGAGACCACA
rabbit -----

human ACCTCATTATCACCTATTCTGAGACACACACAAGTTCAGCCATTCCAACCTCCCTGTC
rabbit -----

human TCCCTGGTGCATCAAAGATGCTGACCTCACTGGTCATCAGTTCTGGGACAGACAGCACT
rabbit -----

human ACAACTTTCCAACACTGACGGAGACCCCATATGAACCAGAGACAACAGCCATACAGCTC
rabbit -----

human ATTCATCCTGCAGAGACCAACACAATGGTCCCAGGACAACCTCCAAGTTTTCCCATAGT
rabbit -----

human AAGTCAGACACCACACTCCCAGTAGCCATCACCAGTCCTGGGCCAGAAGCCAGTTCAGCT
rabbit -----

human GTTCAACGACAACCTATCTCACCTGATATGTCAGATCTGGTGACCTCACTGGTCCCTAGT
rabbit -----

human TCTGGGACAGACACCAGTACAACCTTCCAACATTGAGTGAGACCCCATATGAACCAGAG
rabbit -----

human ACTACAGCCACGTGGCTCACTCATCCTGCAGAAACCAGCACAACGGTTTCTGGGACAATT
rabbit -----

human CCCAACTTTTCCCATAGGGGATCAGACACTGCACCCTCAATGGTCACCAGTCCTGGAGTA
rabbit -----

human GACACGAGGTCAGGTGTTCCAACACTACAACCATCCCACCCAGTATACCAGGGGTAGTGACC
rabbit -----

human TCACAGGTCAGTCTGCAACAGACACTAGTACAGCTATTCCAACCTTTGACTCCTTCT
rabbit -----

human CCTGGTGAACCAGAGACCACAGCCTCATCAGCTACCCATCCTGGGACACAGACTGGCTTC
rabbit -----

human ACTGTTCCAATTCGGACTGTTCCCTCTAGTGAGCCAGATACAATGGCTTCTGGGTCAGT
rabbit -----

human CATCCTCCACAGACCAGCACACCTGTTTCCAGAACAACCTCCAGTTTTTCCCATAGTAGT
rabbit -----

human CCAGATGCCACACCTGTAATGGCCACCAGTCCTAGGACAGAAGCCAGTTCAGCTGTAAGT
rabbit -----

human ACAACAATCTCACCTGGTGCACCAGAGATGGTGACTTCACAGATCACTAGTTCTGGGGCA
rabbit -----

human GCAACCAGTACAACCTGTTCCAACCTTTGACTCATTCTCCTGGTATGCCAGAGACCACAGCC
rabbit -----

human TTATTGAGCACCCATCCCAGAACAGAGACAAGTAAACATTTCTGCTTCAACTGTGTTT
rabbit -----

human CCTCAAGTATCAGAGACCACAGCCTCACTCACCATTAGACCTGGTGCAGAGACTAGCACA
rabbit -----

human GCTCTCCCAACTCAGACAACATCCTCTCTTCCACCTACTTGTAAGTGAACCCAGCAGA
rabbit -----

human GTTGATCTAAGTCCAAGTGGTTCACCTGGTGTCTGCAAAAACAGCCCCACTTCCACC
rabbit -----

human CATCCAGGGACAGAAACCAGCACAATGATTCCAAGTCAACTCTTCCCTTGGTTACTA
rabbit -----

human GAGACTACAGGCTTACTGGCCACCAGCTTTCAGCAGAGACCAGCAGGAGTACTCTAACT
rabbit -----

human CTGACTGTTTCCCTGCTGTCTCTGGGCTTTCAGTGCCTCTATAACAAGTATAAGCCC
rabbit -----

human CAAACTGTGACCTCCTGGAACACAGAAACCTCACCATCTGTAAGTTCAGTTGGACCCCA
rabbit -----

human GAATTTTCCAGGACTGTCACAGGCACCACTATGACCTTGATACCATCAGAGATGCCAACA
rabbit -----

human CCACCTAAAACAGTCATGGAGAAGGAGTGAGTCCAACCACTATCTTGAGAACTACAATG
rabbit -----

human GTTGAAGCCACTAATTTAGCTACCACAGGTTCCAGTCCCCTGTGGCCAAGACAACAACC
rabbit -----

human ACCTTCAATACACTGGCTGGAAGCCTCTTACTCCTCTGACCACACCTGGGATGTCCACC
rabbit -----

human TTGGCCTCTGAGAGTGTGACCTCAAGAACAAGTTATAACCATCGGTCTGGATCTCCACC
rabbit -----

human ACCAGCAGTTATAACCGTCGGTACTGGACCCCTGCCACCAGCACTCCAGTGA CTCTACA
rabbit -----

human TTCTCCCAGGGATTTCCACATCCTCCATCCCAGCTCCACAGCAGCCACAGTCCCATT
rabbit -----

human ATGGTGCCATTACCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCGG
rabbit -----

human CACCCTGGTTCAGGAAGTTCAACGCCACAGAGAGAGAACTGCAGGGTCTGCTCAAACCC
rabbit -----

human TTGTTCAGGAATAGCAGTCTGGAATACCTCTATT CAGGCTGCAGACTAGCCTCACTCAGG
rabbit -----

human CCAGAGAAGGATAGCTCAGCCACGGCAGTGGATGCCATCTGCACACATCGCCCTGACCCT
rabbit -----

human GAAGACCTCGGACTGGACAGAGAGCGACTGTACTGGGAGCTGAGCAATCTGACAAATGGC
rabbit -----

human ATCCAGGAGCTGGGCCCTACACCCTGGACCGGAACAGTCTCTATGTCAATGGTTTCACC
rabbit -----

human CATCGAAGCTCTATGCCACCACCAGCACTCCTGGGACCTCCACAGTGGATGTGGGAACC
rabbit -----

human TCAGGGACTCCATCCTCCAGCCCCAGCCCCAGCACTGCTGGCCCTCTCCTGATGCCGTTCC
rabbit -----

human ACCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATGCGTCGCACTGGCTCC
rabbit -----

human AGGAAGTTCAACACCATGGAGAGTGCCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAAC
rabbit -----

human ACCAGTGTGGCCCTCTGTACTCTGGCTGCAGATTGACCTTGCTCAGGCCCGAGAAAGAT
rabbit -----

human GGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCGCCTTGACCCAAAAGCCCTGGA
rabbit -----

human CTC AACAGGGAGCAGCTGTACTGGGAGCTAAGCAA CTGACCAATGACATTGAAGAGCTG
rabbit -----

human GGGCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCAGAGCTCT
rabbit -----

human GTGTCCACCACCAGCACTCCTGGGACCTCCACAGTGGATCTCAGAACCTCAGGGACTCCA
rabbit -----

human TCCTCCCTCTCCAGCCCCACAATTATGGCTGCTGGCCCTCTCCTGGTACCATTACCCTC
rabbit -----

human AACTTCACCATCACCAACCTGCAGTATGGGGAGGACATGGGTCACCCTGGCTCCAGGAAG
rabbit -----

human TTCAACACCACAGAGAGGGTCTGCAGGGTCTGCTTGGTCCCATATTCAAGAACCAGT
rabbit -----

human GTTGGCCCTCTGTACTCTGGCTGCAGACTGACCTCTCTCAGGTCTGAGAAGGATGGAGCA
rabbit -----

human GCCACTGGAGTGGATGCCATCTGCATCCATCATCTTGACCCCAAAGCCCTGGACTCAAC
rabbit -----

human AGAGAGCGGCTGTACTGGGAGCTGAGCCAAGTACCAATGGCATCAAAGAGCTGGGCCCC
rabbit -----

human TACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTCACCCATCGGACCTCTGTGCC
rabbit -----

human ACCAGCAGCACTCCTGGGACCTCCACAGTGGACCTGGAACCTCAGGGACTCCATTCTCC
rabbit -----

human CTCCAAGCCCCGCAACTGCTGGCCCTCCTGGTGTGTTACCCCTCAACTTCACCATC
rabbit -----

human ACCAACCTGAAGTATGAGGAGGACATGCATCGCCCTGGCTCCAGGAAGTTCAACACCACT
rabbit -----

human GAGAGGGTCTGCAGACTCTGCTTGGTCCTATGTTCAAGAACACCAGTGTGGCCTTCTG
rabbit -----

human TACTCTGGCTGCAGACTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTG
rabbit -----

human GATGCCATCTGCACCCACCGTCTTGACCCAAAAGCCCTGGAGTGGACAGGGAGCAGCTA
rabbit -----

human TACTGGGAGCTGAGCCAGCTGACCAATGGCATCAAAGAGCTGGGCCCTACACCCTGGAC
rabbit -----

human AGGAACAGTCTCTATGTCAATGGTTTCACCCATTGGATCCCTGTGCCACCAGCAGCACT
rabbit -----

human CCTGGGACCTCCACAGTGGACCTTGGGTGAGGGACTCCATCCTCCCTCCCAGCCCCACA
rabbit -----

human ACTGCTGGCCCTCTCCTGGTGCCGTTACCCCTCAACTTCACCATCACCAACCTGAAGTAC
rabbit -----

human GAGGAGGACATGCATTGCCCTGGCTCCAGGAAGTTCAACACCACAGAGAGATCCTGCAG
rabbit -----

human AGTCTGCTTGGTCCCATGTTCAAGAACACCAGTGTGGCCCTCTGTA CTCTGGCTGCAGA
rabbit -----

human CTGACCTTGCTCAGGTCCGAGAAGGATGGAGCAGCCACTGGAGTGGATGCCATCTGCACC
rabbit -----

human CACCGTCTTGACCCCAAAGCCCTGGAGTGGACAGGGAGCAGCTATACTGGGAGCTGAGC
rabbit -----

human CAGCTGACCAATGGCATCAAAGAGCTGGGTCCCTACACCCTGGACAGAAACAGTCTCTAT
rabbit -----

human GTCAATGGTTTACCCATCAGACCTCTGCGCCCAACACCAGCACTCCTGGGACCTCCACA
rabbit -----

human GTGGACCTTGGGACCTCAGGGACTCCATCCTCCCTCCCAGCCCTACATCTGCTGGCCCT
rabbit -----

human CTCCTGGTGCCATTACCCCTCAACTTCACCATCACCAACCTGCAGTACGAGGAGGACATG
rabbit -----

human CATCACCCAGGCTCCAGGAAGTTCAACACCACGGAGCGGGTCCTGCAGGGTCTGCTTGGT
rabbit -----

human CCCATGTTCAAGAACACCAGTGTGGCCTTCTGTACTCTGGCTGCAGACTGACCTTGCTC
rabbit -----

human AGGCCTGAGAAGAATGGGGCAGCCACTGGAATGGATGCCATCTGCAGCCACCGTCTTGAC
rabbit -----

human CCCCCAAGCCCTGGACTCAACAGAGAGCAGCTGTACTGGGAGCTGAGCCAGCTGACCCAT
rabbit -----

human GGCATCAAAGAGCTGGGCCCTACACCCTGGACAGGAACAGTCTCTATGTCAATGGTTTC
rabbit -----

human ACCCATCGGAGCTCTGTGGCCCCACCAGCACTCCTGGGACCTCCACAGTGGACCTTGGG
rabbit -----

human ACCTCAGGGACTCCATCCTCCCTCCCCAGCCCCACAACAGCTGTTCTCCTCCTGGTGCCG
rabbit -----

human TTCACCCTCAACTTTACCATCACCAATCTGCAGTATGGGGAGGACATGCGTCACCCTGGC
rabbit -----

human TCCAGGAAGTTCAACACCACAGAGAGGGTCCTGCAGGGTCTGCTTGGTCCCTTGTTC AAG
rabbit -----

human AACTCCAGTGTGGCCCTCTGACTCTGGCTGCAGACTGATCTCTCAGGTCTGAGAAG
rabbit -----

human GATGGGGCAGCCACTGGAGTGGATGCCATCTGCACCCACCACCTTAACCCTCAAAGCCCT
rabbit -----

human GGACTGGACAGGGAGCAGCTGACTGGCAGCTGAGCCAGATGACCAATGGCATCAAAGAG
rabbit -----

human CTGGGCCCCTACACCCTGGACCGGAACAGTCTCTACGTC AATGGTTTCACCCATCGGAGC
rabbit -----

human TCTGGGCTCACCACCAGCACTCCTTGGACTTCCACAGTTGACCTTGG AACCTCAGGGACT
rabbit -----

human CCATCCCCGTCCCCAGCCCCACAACCACGGCCCTCTCCTGGTGCCATT CACTCAAC
rabbit -----

human TTCACCATCACTAACCTACAGTATGAGGAGAACATGGGT CACCCTGGCTCCAGGAAGTTC
rabbit -----

human AACATCACGGAGAGTGTTCTGCAGGGTCTGCTCAAGCCCTTGTTCAAGAGCACCAGTGTT
rabbit -----

human GGCCCTCTGTATTCTGGCTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGAGTAGCC
rabbit -----

human ACCAGAGTGGACGCCATCTGCACCCACCGCCCTGACCCAAAATCCCTGGGCTAGACAGA
rabbit -----

human CAGCAGCTATACTGGGAGCTGAGCCAGCTGACCCACAGCATCACTGAGCTGGGACCCTAC
rabbit -----

human ACCCTGGATAGGGACAGTCTCTATGTCAATGGTTTCACCCAGCGGAGCTCTGTGCCACC
rabbit -----

human ACCAGCACTCCTGGGACTTTCACAGTACAGCCGAAACCTCTGAGACTCCATCATCCCTC
rabbit -----

human CCTGGCCCCACAGCCACTGGCCCTGTCCTGCTGCCATTACCCTCAATTTTACCATCACT
rabbit -----

human AACCTGCAGTATGAGGAGGACATGCGTCGCCCTGGCTCCAGGAAGTTCAACACCACGGAG
rabbit -----

human AGGGTCCTTCAGGGTCTGCTTATGCCCTTGTTCAAGAACACCAGTGTGAGCTCTCTGTAC
rabbit -----

human TCTGTTGCAGACTGACCTTGCTCAGGCCTGAGAAGGATGGGGCAGCCACCAGAGTGGAT
rabbit -----

human GCTGTCTGCACCCATCGTCCTGACCCAAAAGCCCTGGACTGGACAGAGAGCGGCTGTAC
rabbit -----

human TGG AAGCTGAGCCAGCTGACCCACGGCATCACTGAGCTGGGCCCTACACCCTGGACAGG
rabbit -----

human CACAGTCTCTATGTCAATGGTTTCACCCATCAGAGCTCTATGACGACCACCAGAACTCCT
rabbit -----

human GATACCTCCACAATGCACCTGGCAACCTCGAGAACTCCAGCCTCCCTGTCTGGACCCATG
rabbit -----

human ACCGCCAGCCCTCTCCTGGTGCTATTCAACAATTAACCTCACCATCACTAACCTGCGGTAT
rabbit -----

human GAGGAGAACATGCATCACCCCTGGCTCTAGAAAGTTTAACACCACGGAGAGAGTCCTTCAG
rabbit -----

human GGTCTGCTCAGGCCTGTGTTCAAGAACACCAGTGTGGCCCTCTGTA CTCTGGCTGCAGA
rabbit -----

human CTGACCTTGCTCAGGCCCAAGAAGGATGGGGCAGCCACCAAAGTGGATGCCATCTGCACC
rabbit -----

human TACCGCCTGATCCCAAAGCCCTGGACTGGACAGAGAGCAGCTATACTGGGAGCTGAGC
rabbit -----

human CAGCTGACCCACAGCATCACTGAGCTGGGCCCTACACCCTGGACAGGGACAGTCTCTAT
rabbit -----

human GTCAATGGTTTCACACAGCGGAGCTCTGTGCCACCACTAGCATTCTGGGACCCCCACA
rabbit -----

human GTGGACCTGGGAACATCTGGGACTCCAGTTTCTAACCTGGTCCCTCGGCTGCCAGCCCT
rabbit -----

human CTCCTGGTGCTATTCACTCTCAACTTCACCATCACCAACCTGCGGTATGAGGAGAACATG
rabbit -----

human CAGCACCTGGCTCCAGGAAGTTCAACACCACGGAGAGGGTCCTCAGGGCCTGCTCAGG
rabbit -----

human TCCCTGTTCAAGAGCACCAGTGTGGCCCTCTGTACTCTGGCTGCAGACTGACTTTGCTC
rabbit -----

human AGGCCTGAAAAGGATGGGACAGCCACTGGAGTGGATGCCATCTGCACCCACCACCCTGAC
rabbit -----

human CCCCCAAGCCCTAGGCTGGACAGAGAGCAGCTGTATTGGGAGCTGAGCCAGCTGACCCAC
rabbit -----

human AATATCACTGAGCTGGGCCCTATGCCCTGGACAACGACAGCCTCTTTGTCAATGGTTTC
rabbit -----

human ACTCATCGGAGCTCTGTGTCCACCACCAGCACTCCTGGGACCCCCACAGTGTATCTGGGA
rabbit -----

human GCATCTAAGACTCCAGCCTCGATATTTGGCCCTTCAGCTGCCAGCCATCTCCTGATACTA
rabbit -----

human TTCACCCTCAACTTCACCATCACTAACCTGCGGTATGAGGAGAACATGTGGCCTGGCTCC
rabbit -----

human AGGAAGTTCAACTACAGAGAGGGTCCTTCAGGGCCTGCTAAGGCCCTTGTTCAAGAAC
rabbit -----

human ACCAGTGTGGCCCTCTGTACTCTGGCTGCAGGCTGACCTTGCTCAGGCCAGAGAAAGAT
rabbit -CCAGTGTGGCACCTTCTACACTGGCTGCAGCCTGGCCGCTCTCAGCCTTGAGAAGGGA
***** * * ** ***** ** * ***** * ***** *

human GGGGAAGCCACCGGAGTGGATGCCATCTGCACCCACCGCCCTGACCCACAGGCCCTGGG
rabbit GGAGCAGCCACTGGTGTGAACCTTGTCTGCACCTTCCACTCTGACCCCTTAACCCCTGGA
** * ***** ** ** * ***** ** * ***** * *****

human CTGGACAGAGAGCAGCTGTATTTGGAGCTGAGCCAGCTGACCCACAGCATCACTGAGCTG
rabbit CTGCGCAGAGAGCAGCTGTACTGGGAGCTGAGCCGAGAGACCTATGGCATCACCCAGCTG
*** ***** * ***** **** * ***** *****

human GGCCCTACACACTGGACAGGGACAGTCTCTATGTCAATGGTTTCACCCATCGGAGCTCT
rabbit GGCTCCTTTGCCCTGGACAGGGACAGTCTCTATGTCAATGATTACACCTATGGAGCCATG
*** ** * ********** ***** ** **** ** * *

human GTACCCACCACCAGCACCAGGGTGGTCAAGGAGGCCATTCACTGAACCTCACCATC
rabbit GCCCAACTACCAGCACTGATGAGGTCAGTGAGGAGCCCTTCAGCTGAACCTCACCATC
* ** * ***** * * ***** ***** ***** *****

human AACAACTGCGCTACATGGCGGACATGGGCCAACCCGGCTCCCTCAAGTTCAACATCACA
rabbit AACAACTGCGCTACTCTGCCAACATGGGCCGCCCTGGCTCCCTCAAGTTCAACATCACA
***** ** ***** ** *****

human CTGATCTCCCTCAGGCCTGAGAAGGATGGGGCAGCCACTGGTGTGGACACCACCTGCACC
rabbit CTGACCTCTCTCAGGTCTGAGCAGGACAGGGTGGGCACTAGCGTGGATGTCATCTGCACC
*** ** ***** ***** ** * ** * ** * ** ***** ** *****

human TACCACCCTGACCCTGTGGGCCCGGGCTGGACATACAGCAGCTTTACTGGGAGCTGAGT
rabbit TATCGCCCTGACCCACGCACCTGGTGTGGATGTGCAGCAGCTGTATGGAGAGCTGAGC
** * ***** * ** * ***** * ***** ** * *****

human CAGCTGACCCATGGTGTACCCAACTGGGCTTCTATGTCCTGGACAGGGATAGCCTCTTC
rabbit CAGCTGACCCATGGTGTACCCAGTTGGCCTGTACAGCTTGGACAAGGACAGCCTATTT

***** * ** * ***** ** ***** **

human ATCAATGGCTATGCACCCAGAATTTATCA---ATCCGGGGCGAGTACCAGATAAATTC
rabbit GTCAATGGCTATGCACCCAGCACGTGGCACCATCTGGAGCGAGTACCAGCTTGATTC
***** * * ** ** * ***** * *****

human CACATTGTCAACTGGAACCTCAGTAATCCAGACCCACATCCTCAGAGTACATCACCTG
rabbit CACATAATCAACTGGAACCTCAGCAAGGCAGATCCCAGCTCTGTGGAGTACCTTGCTCTG
***** ***** ** ***** ** ***** * * **

human CTGAGGGACATCCAGGACAAGGTCACCACACTCTACAAAGGCAGTCAACTACATGACACA
rabbit ATGACGGACATCCAGGACAAGGTCACCAGACTCTACACAGGGAGTCAACTACGAGACGTG
*** ***** ***** ***** ***** ***** **

human TTCCGCTTCTGCCTGGTCACCAACTTGACGATGGACTCCGTGTTGGTCACTGTCAAGGCA
rabbit TTCAACTCATGCCTAGTCACCAACTTAACGTGGGCTCTCTGTTGGTCACTATGAAAGCA
** * ***** ***** ** * ** ***** * ** **

human TTGTTCTCCTCCAATTTGGACCCAGCCTGGTGGAGCAAGTCTTTCTAGATAAGACCCTG
rabbit CTGTTCTCCTCCAATCTGGACCCACCTGGTGAAGCAAGTTTTCTAGAAAAGACCTCG
***** ***** ***** ***** ***** ***** *

human AATGCCTCATTCCATTGGCTGGGCTCCACCTACCAGTTGGTGGACATCCATGTGACAGAA
rabbit AATGCCTCATCCTACTGGCTGGGCGCCACCTACCAGTTGATGGATCTGCATGTGACAGAA
***** * * ***** ***** ***** ***** * *****

human ATGGAGTCATCAGTTTATC-----AACCAACAAGCAGCTCCAGCACCCAGCAC
rabbit GTGAGGCCAGCAGTTCATCTACCTACAGAAAAACCAACAAGAAGTCCCAGTCCCAGCAA
** * ** ***** ** ***** ** *****

human TTCTACCTGAATTTACCATCACCAACCTACCATATCCCAGGACAAAGCCCAGCCAGGC
rabbit TTCCAGCTGAATTTACCATCACCAACCTGTTCTACTCCCAAGACATAGCCCAGGAAGGC
*** * ***** ***** ** ***** ** *****

human ACCACCAATTACCAGAGGAACAAAAGGAATATTGAGGATGCGCTCAACCAACTTTCCGA
rabbit AGTGCCAAATACCAGTGGAACAAAAGAAGTATTGAGGACGCGCTCAACCAGCTTTCCAA
* **** ***** ***** * ***** ***** ***** *

human AACAGCAGCATCAAGAGTATTTTTCTGACTGTCAAGTTTCAACATTCAGGTCTGTCCCC
rabbit AACAGCAGCGTCAAGAGTACTTTTCCGAATGTCAAGTTGTAGCATTCCGGTCTGTCCCC
***** ***** ***** ** ***** * ***** *****

human AACAGGCACCACACCGGGTGGACTCCCTGTGTAACCTCTCGCCACTGGCTCGGAGAGTA
rabbit GACAGCGACCATACCAAAGTGGACTCCTTGTGTGGCTTCTCATCTTTGGCTCGGAGACTG
*** ** * ***** ***** ***** * ***** *

human GACAGAGTTGCCATCTATGAGGAATTTCTGCGGATGACCCGGAATGGTACCCAGCTGCAG
rabbit GACAGAGTCATTATCTATGAGGAGTTTGTGCAGATGACCAAGAATGGTACTCAGTTGCAG
***** ***** ***** ** ***** ***** ** *****

human AACTTCACCCTGGACAGGAGCAGTGTCCCTTGTGGATGGGTATTCTCCAACAGAAATGAG
rabbit AACTTCACCCTGGACAGGGACAGCATTCTTGTGGACGGGTATTCTCCAAGCAGAAATGAT
***** ***** ** * ***** ***** ***** *

human CCCTTAACTGGGAATTCTGACCTTCCCTTCTGGGCTGTCATCCTCATCGGCTTGGCAGGA
rabbit GCTGTGATTAGGAATTCAGACCTTCCCTTCTGGCCATCATCCTCATCTGCCTGGCTGCA
* * * ***** ***** ***** ***** ** ***** *

human CTCCTGGGAGTCATCACATGCCTGATCTGCGGTGTCTGGTGACCACCCGCCGGCGGAAG
rabbit TTCCTGGGACTCATCACGTGCCTGGTCTGCTGCTTTCTGGTGGCCACCCGCCTGCGGAGG
***** ***** ***** ***** * * ***** ***** ***** *

human AAGGAAGGAGAATACAACGTCCAGCAACAGTGCCCAGGCTACTACCAGTCACACCTAGAC
rabbit AAGGAGGGAGACTACGAGGTCCAACGCCGCCCTGGGCTACTATCTGCCACAGCTGGAC
***** ***** ** * ***** * * *** ***** * * **** ** ***

human CTGGAGGATCTGCAATGA---CTGGAACCTGCCGG---TGCCTGGGGTGCCTTTCCCCA
rabbit CTGACGAAGCTGCAGTAATTCCTGGAACCACAGGAGCTTGGCTGGAGCAGAAATAAACCA
*** * * ***** * * ***** * ** ***** * * ****

human GCCAGGGTCCAAAGAAGCTT--GGCTGGGGCAGAAATAAACCAT-ATTGGTCGGA-----
rabbit CACTGGTGCACACAGCCTCTGGGCCCTTCTTGACTTGGCCCCTGACTGGCTTGCAGAGA
* ** * * * * ** *** ** * ** * * **** *

human -----
rabbit CTACGAGGAAAGTTGAAAGCCTTCCTTCCTTACTAAGCCCTGAAGTCAACTATCAGTTG

human -----
rabbit TGTTTTATGGTTTCACACCATGTCACCCTCAGGGATGCCAGGATTGCCATCACATAAAA

human -----
rabbit TCAACATCCCCTTACCATGAGGTTTTCCCTCCTGTTCACCCACTGTATACCTGCTATT

human -----
rabbit CTCCCATCACACCTATGTCTGCTCCTCCCATTCCCTACTTCCTGTAGTCCCCTAGT

human -----
rabbit CTTGAGTTTGTCTTCCTTCATTCTCTGAAGCTCAGGTTACCAGGATTTCTGGATCAGTT

human -----
rabbit TTCCTGGATGTCTCCTTACCCACCCCATGGATTCTCCAAGATGAAAAACAGACCAAGAA

human -----
rabbit GTGGCTCAAAAATGGCTCTGTAATCAGCTTTGGGACTGGAGAGCTGAAATGAAGAGAGGC

human -----
rabbit ATTAGGAAGCCAAGTAATATCAAGATTCTAGAAGCATAATGTCTGCTTTGGATATAAAG

human -----
rabbit ATGAATAAAAGT

Underline fields are primer sequences we used.

Supplemental Information 5.

CLUSTAL 2.1 multiple sequence alignment

Galectin 3

```
human      GAGTATTTGAGGCTCGGAGCCACCGCCCCCGCGGCCCGCAGCACCTCCTCGCCAGCAG
rabbit     -----

human      CCGTCCGGAGCCAGCCAACGAGCGGAAAATGGCAGACAATTTTCGCTCCATGATGCGTT
rabbit     -----AGGAAAATGGCGGATGGTTTTTCGCTCAACGATGCCCT
                ***** **      ***** * ***** *

human      ATCTGGGTCTGGAAACCCAAACCTCAAGGATGGCCTGGCGCATGGGGGAACCAGCCTGC
rabbit     ATCTGGGTCTGGACACCCCCAAACCAAGGATGGCCTGGCCCATGGGGGAACCAGCCTGC
                ***** ****      *****

human      TGGGGCAGGGGGCTACCCAGGGGCTTCTATCCTGGGGCTACCCGGGCAGGCACCCC
rabbit     TGGGCCAGGGGGCTACCCAGGGCAGCCTATCCTGGGGCTACCCTGGACATGCACCT--
                *** *****

human      AGGGGCTTATCCTGGACAGGCACCTCCAGGCGCCTACCCTGGAGCACCTGGAGCTTATCC
rabbit     -GGAGCTTATCCCGGGAAGCGCCTCCTGGCCCCTACCCTGG-----CC
                * ***** ** * * * ***** ** *****

human      CGGAGCACCTGCACCTGGAGTCTACCCAGGGCCACCCAGCGGCCCTGGGGCCTACCCATC
rabbit     CAGGA-----GCACATGGAGCCTACCCTGGGCAGCCAGGTGGTCTGGGGCCTACCCGTC
                * *      **** ***** ***** ***** * * * *****

human      TTCTGGACAGCCAAGTGCCACCGGAGCCTACCCTGCCACTGGCCCCTATGGCGCCCTGC
rabbit     TCCTGGACAGCCAAGTGGTGTGCTGGAGCTTACCCTGGCGCCAGCCCTTACAGCGCCTCTGC
                * ***** * ***** * * ***** ** *****

human      TGGGCCACTGATTGTGCCTTATAACCTGCCTTTGCCTGGGGGAGTGGTGCCTCGCATGCT
rabbit     TGGACCACTGCCTGTGCCTTATGACCTGCCTCTGCCTGGAGGAGTCATGCCCCGCATGCT
```


*** ***** ***** ***** ***** ***** ***** ***** *****

human GATAACAATTCTGGGCACGGTGAAGCCCAATGCAAACAGAATTGCTTTAGATTTCCAAAG
rabbit GATAACGATTGTGGGCACGGTGAAGCCCAATGCAAACAGACTCGCTTTGGATTCAAGAG

***** ** ***** ***** * ***** ***** * **

human AGGGAATGATGTTGCCTTCCACTTTAACCACGCTTCAATGAGAACAACAGGAGAGTCAT
rabbit AGGGAATGACGTTGCCTTCCACTTTAACCCCCGCTTCAATGAGAACAACAGGAGAGTCAT

***** ***** ***** ***** ***** ***** ***** *****

human TGTTTGAATACAAAGCTGGATAATAACTGGGGAAGGGAAGAAAGACAGTCGGTTTTCCC
rabbit TGCTGCAACACAAAGGTGGATAACAACCTGGGGAAGGGAAGAAAGGCAGACGACTTTCCC

*** ***** ***** ***** ***** ***** ***** ***** ** *****

human ATTTGAAAGTGGGAAACCATTCAAATACAAGTACTGGTTGAACCTGACCACTTCAAGGT
rabbit ATTTGAAATTGGTAAACCATTCAAATACAAGTCTGGTGGAGCCAGACCACTTCAAGGT

***** ** ***** ***** ***** ***** ***** ***** *****

human TGCAGTGAATGATGCTCACTTGTTGCAGTACAATCATCGGGTTAAAAACTCAATGAAAT
rabbit TGCGGTCAATGATGCCACTTGTTGCAGTACAATCATCGCATGAGAAACCTCAAGGAAAT

*** ** ***** ***** ***** ***** * * *** ***** *****

human CAGCAAAGCTGGGAATTTCTGGTGACATAGACCTCACCAGTGCTTCATATACCATGATATA
rabbit CAACAAGCTGGGAATTTCTGGTGACATACAACCTCACCAGTGCTTCACATGCTATGATATA

** *** ***** ***** * ***** ***** ** * *****

human ATCTGAAAGGGCAGATTAATAAAAAAAAAAAGAATCTAAACCTTACATGTGTAAGGTTT
rabbit A-----

*

human CATGTTCACTGTGAGTGAAAATTTTACATTCATCAATATCCCTCTTGTAAGTCATCTAC
rabbit -----

human TTAATAAATATTACAGTGAATTACCTGTCTCAATATGTCAAAAAAAAAAAAAAAAAA
rabbit -----

Underline fields are primer sequences we used.