

Supporting Information

Stewart et al. 10.1073/pnas.1714926115

CLUSTAL O(1.2.4) multiple sequence alignment

```
Human          MGTWILFACLVGAAFAMPLPPHPGHPGYINFSYENSHSQAINVDRIALVLTPLKQYQSMI 60
Chimpanzee     MGTWILFACLVGAAFAMPLPPHPGHPGYINFSYENSHSQAINVDRIALVLTPLKQYQSMI 60
Western Gorilla MGTWILFACLVGAAFAMPLPPHPGHPGYINFSYE-----VLTPLKQYQSMI 46
*****
Human          RPPYSSYGYEPMGGWLHHQIIPVVSQQHPLTHTLQSHHHIPVVPAQQPRVQALMPVPG 120
Chimpanzee     RPPYSSYGYEPMGGWLHHQIIPVVSQQHPLTHTLQSHHHIPVVPAQQPRVQALMPVPG 120
Western Gorilla RPPYSSYGYEPMGGWLHHQIIPVVSQQHPLTHTLQSHHHIPVVPAQQPRVQALMPVPG 106
*****
Human          QQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQPMPQPPVQPMQPLLPQPPLPPMFPLR 180
Chimpanzee     QQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQPMPQPPVQPMQPLLPQPPLPPMFPMR 180
Western Gorilla QQSMTPTQHHQPNLPLPAQQPFQPPVQPPHQPMPQPPVQPMQPLLPQPPLPPMFPMR 166
*****
Human          PLPPILPDLHLEAWPATDKTKQEEVD--- 206
Chimpanzee     PLPPILPDLHLEAWPATDKTKRE----- 203
Western Gorilla PLPPILPDLHLEAWPATDKTKQEEVSTP 195
*****
```

Q99218 - *Homo sapiens* (Human)
Q861X8 - *Pan troglodytes* (Chimpanzee)
W8CEL7 - *Gorilla gorilla* (Western gorilla)

Fig. S1. Aligned amino acid sequences of the Y isoforms of Amelogenin from human, chimpanzee, and western gorilla. The human AMELY-(58-64) peptide sequence is identical across primates.