

Supplementary Figure S2. Amino acid sequence alignment of the E6 and E7 proteins of HPV16 and HPV18. The amino acids that were mutated in HPV16 E6 and E7 are highlighted and are conserved in HPV18 E6 and E7.

HPV16 E6 (AYV61474); 158 aa

MHQKRTAMFQDPQERPGKLPQLCTELQTTIHDIILECVYCKQQLLRREVDFA**F**RDLCIV
YRDGNPYAVCDKCLKFYISKISEYRHYCYSVYGTTLQYQNKPLCDLLIRCIN**C**QKPLCPE
EKQRHLDDKKQRFHNIIRGRWTGRCMSSCRSSRTRRETQL

HPV18 E6 (ATL15239); 158 aa

MARFEDPTRRPYKLPDLCTELNTSLQDIEITCVYCKTVLELLEVFEF**F**AKDLFVVYRDSI
PHAACHKCIDFYSRIRELRHYSVYGDITLEKLTNTGLYNLLIRCL**R**CQKPLNPAEKLRLH
LNEKRRFHNIAGHYRGQCHSCCNRRARQERLQRRRETQV

HPV16	MHQKRTAMFQDPQERPGKLPQLCTELQTTIHDIILECVYCKQQLLRREVDFAFRDLCIV	60
HPV18	-----MARFEDPTRRPYKLPDLCTELNTSLQDIEITCVYCKTVLELLEVFEF F AKDLFVV	55
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HPV16	YRDGNPYAVCDKCLKFYISKISEYRHYCYSVYGTTLQYQNKPLCDLLIRCIN C QKPLCPE	120
HPV18	YRDSIPHAACHKCIDFYSRIRELRHYSVYGDITLEKLTNTGLYNLLIRCL R CQKPLNPA	115
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HPV16	EKQRHLDDKKQRFHNIIRGRWTGRCMSSCRSSR-----RRETQL 158	
HPV18	EKLRLNEKRRFHNIAGHYRGQCHSCCNRRARQERLQRRRETQV 158	
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HPV16 E7 (AYV61475), 98 aa

MHGDTPTLHEYMLDLQPETTD**L**Y**C**Y**E**QLNDSSEEEDEIDGPAGQAEPDRAHYNIVTF**CCK**
CDSTLRLCVQSTHVDIRTLEDLLMGTGIVCPICSQKP

HPV18 E7 (ATL15240); 105 aa

MHGPKATVQDIVLHLEPQNEIPVD**L**L**C**H**E**QLSDSEEENDEIDGVNHQHLPARRAEPQRHT
LLCM**CCK**CEARIELVVESSADDLRAFQQLFLNTLSFVCPWCASQQ

HPV16	MHGDTPTLHEYMLDLQPE---TTDLYCYEQLNDSSEEEDEIDGPAGQAEPDRA---HYN	53
HPV18	MHGPKATVQDIVLHLEPQNEIPVDLLCHEQLSDSEEENDEIDGVNHQHLPARRAEPQRHT	60
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HPV16	IVTFCKCDSTLRLCVQSTHVDIRTLEDLLMGTGIVCPICSQKP 98	
HPV18	LLCMCKCEARIELVVESSADDLRAFQQLFLNTLSFVCPWCASQQ 105	
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