

Generated Construct	Template	Cloning method		Sequence (5'-3')	
E6 wt - OVA FOR	E6 wt	PCR, ligation	Sense antisense	GGATCCATGTACCCCTACGACGTCC GAATTCACGCTGGGTTTCTCTACGTG	
E6 mut - OVA FOR	E6 mut	PCR, ligation	Sense antisense	GGATCCATGTACCCCTACGACGTCC GAATTCACGCTGAGTTTCCCGTCTGG	
E6 wt – Ova Δ ATG 46	E6 wt – Ova Δ ATG 1	SDM	Sense antisense	GTTACCACAGTTCACAGAGCTGCAAAACAAC GTTGTTTGACGCTTGCACTAAGTGTGAAC	
E6 mut – Ova Δ ATG 46	E6 mut – Ova Δ ATG 1	SDM	Sense antisense	CGCCTCCGGGACCTGTGCATCGTGAC GTACACGATGCACAGGTCCCGAAGGCG	
E6 wt – Ova Δ ATG 151	E6 wt – Ova Δ ATG 46	SDM	Sense antisense	GTTATAGTTTGTGAACAACATTAGAACAGC GCTGTTCTAATGTTCATACAACTATAAC	
E6 mut – Ova Δ ATG 151	E6 mut – Ova Δ ATG 46	SDM	Sense antisense	GTGCGACAAGTGCCTGAAGTTCTACAGCAAG CTTGCTGAGAACTTCAGGCACTTGTCGCAC	
E6 wt HA C-ter	E6 wt HA	SDM	Sense antisense	GAGAAACCCAGCTGTACCCCTACGACGTCCCGACTACGCCTAAGA ATTCTGC GCAGAACTCTAGGCGTAGTCGGGGACGTCGTAGGGGTACAGCTG GGTTTCTC	
E6 mut HA C-ter	E6 mut	SDM	Sense antisense	GGAAACTCAGCTGTACCCCTACGACGTCCCGACTACGCCTGAGAA TTCTGC GCAGAACTCTCAGGCGTAGTCGGGGACGTCGTAGGGGTACAGCTG AGTTTCC	
E6 wt-β	E6 wt, E6 mut	PCR, ligation	Sense antisense	GAGCTCGGATCCATGCACCA GAAACGGACGCCATGTTC GGATTCCCATCTCTATACAGATGCACAGTCCCGG	
E6 wt-γ	E6 wt, E6 mut	PCR, ligation	Sense Antisense	CCGGGACCTGTGCATCGTGTACAGGGACGGCAACCCCTACGC GACACAGTGGCTTTTGACAGTTGATGCACCGATCAGCAGGTC	
E6 wt HA C-ter SL8	E6 wt	SDM	Sense antisense	GAAACCCAGCTGAGTATAATCAACTTTGAAAACTGTACCCCTACG ACG CGTCGTAGGGGTACAGTTTTTCAAAGTTGATTATACTCAGCTGGGT TTC	
E6 wt-γ HA C-ter SL8	E6 wt-β	SDM	Sense Antisense	GAAACCCAGCTGAGTATAATCAACTTTGAAAACTGTACCCCTACG ACG CGTCGTAGGGGTACAGTTTTTCAAAGTTGATTATACTCAGCTGGGT TTC	
E6 mut HA C-ter SL8	E6 mut	SDM	Sense antisense	CGGGAAACTCAGCTGAGTATAATCAACTTTGAAAACTGTACCCCT ACGACG CGTCGTAGGGGTACAGTTTTTCAAAGTTGATTATACTCAGCTGAGT TTCCCG	
E6 wt-γ Codons 1-2	E6 wt-γ	SDM	Sense antisense	CCTGAAGAAAAGCAACGGCATCTGGACAAAAAGCAATTCATAAT ATAAGG CCTTATATTATGGAACCGTTGCTTTTGTCCAGATGCCGTTGCTTTT CTTCAGG	
E6 wt-γ Codons 1-5	E6 wt-γ Codons 1-2	SDM	Sense antisense	GCAACGGTTCATAATATCCGGGAGATGGACCGGCTGTATGTCTT GTTGC GCAACAAGACATACAGCCGGTCCATCTCCCCGATATTATGGAACC GTTGC	
E6 wt-γ Codons 1-8	E6 wt-γ Codons 1-5	SDM	Sense antisense	GTATGCTTGTGTCAGATCCAGCAGAACCAGACGG GAAACCCAGCTG GTATGCTTGTGTCAGATCCAGCAGAACCAGACGG GAAACCCAGCTG	
E6 wt-γ Codons 6-8	E6 wt-γ Codons 1-8	SDM	Sense antisense	GTATGCTTGTGTCAGATCCAGCAGAACCAGACGG GAAACCCAGCTG GTATGCTTGTGTCAGATCCAGCAGAACCAGACGG GAAACCCAGCTG	
E6 wt-γ Codons 1-12	E6 wt-γ Codons 6-8	SDM	Sense antisense	GTATGCTTGTGTCAGATCCAGCCGACCAGACGGAAAAACCCAGC TG CAGCTGGGTTTCCCGTCTGGTCCGGTGGATCTGCAACAAGACATA C	
E6 wt-γ Codons 13-14	E6 wt-γ	SDM	Sense antisense	GGTGCACTCACTGTGAGAAGCCACTGTGTCCTGAAGAAAAAGCAGA GACATCTGGACAAAA CTTTTGTCCAGATGTCTCTGTTTCTTCAGGACACAGTGCTTCT GACAGTTGATGCACC	
E6 wt-γ Codons 1-17	E6 wt-γ Codons 13-14	SDM	Sense antisense	GAAGAAAAGCAGAGACATCTGGACAAAAAGCAGAGATTCCAT ATGGAATCTCTGCTTTTGTCCAGATGTCTGCTTTTCTTC	
E6 wt-γ Codons 13-17	E6 wt-γ Codons 13-14	SDM	Sense antisense	GATTCATAATATCAGGGGCGGTGGACCGGCAGATGTATGTCTT G CAAGACATACATCTGCCGGTCCACCGGCCCTGATATTATGGAATC	
6HPV E6 wt	6HPV E6 in pET	PCR, restriction ligation	Sense antisense	GCGCGAATTCTTAGGGTAACAAGTCTTCCATGCATG GGACAACATGCATGGAAGACATGTTACCCTAAGAATTCGCGC	
11HPV E6 wt	11HPV E6 in pET	PCR, restriction ligation	Sense antisense	GGATCCATGTACCCCTACGACGTCCCGACTACGCCATGGAAAGTA AAGATGCC GCGCGAATTCTTAGGGTAACAAGTCTTCCATGC	