

## **Oncolytic vaccinia virus delivering tethered IL-12 enhances antitumor effects with improved safety**

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**Running title:** Oncolytic virus delivering tethered IL-12 safe and effective

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Table S1

Primer	PCR Template	Cloning Plasmid	Resulting Plasmid
P1: 5'GGCGGTCGAC <u>GAGCTC</u> ATGTGTCCTCAGAAGCT AACCATC3' P2: 5'CCGC <u>GTTAAC</u> CTAGGATCGGACCCTGCAGGGAA CAC3'	pGEM-IL-12B	pCMS1-IRES	pCMS1-IRES-IL- 12p40
P3: 5'GGCG <u>GTCGAC</u> ATGGTCAGCGTTCCAACAGCCTC 3' P4: 5' CGCG <u>GGCGCGCC</u> TCAGGCGGAGCTCAGATAGCC C3'	pGEM-IL-12A	pCMS1-IRES- IL-12p40	pCMS1-IL-12p35- IRES-IL-12p40
P1: 5'GGCG <u>GTCGAC</u> GAGCTCATGTGTCCTCAGAAGCT AACCATC3' P5: 5'CCGC <u>GGCCGGCC</u> CGGATCGGACCCTGCAGGGA ACAC3'	pGEM-IL-12B	pCMS1-IRES- FGPI	pCMS1-IL-12p40- FG
P1: 5'GGCGGTCGAC <u>GAGCTC</u> ATGTGTCCTCAGAAGCT AACCATC3' P6: 5'GCGC <u>GTTAACT</u> CAAATGTTTGTCTTCACAGAG3'	pCMS1-IL- 12p40-FG	pCMS1-IRES	pCMS1-IRES-IL- 12p40-FG
P3: 5'GGCG <u>GTCGAC</u> ATGGTCAGCGTTCCAACAGCCTC 3' P4: 5' CGCG <u>GGCGCGCC</u> TCAGGCGGAGCTCAGATAGCC C3'	pGEM-IL-12A	pCMS1-IRES- IL-12p40-FG	pCMS1-IL-12p35- IRES-IL-12p40-FG
P7: 5'GGCC <u>GGCCGGCC</u> GCTGAAGCTGCCGAAAAGA GGCCGCTGCGAAGGAGGCCGCGGCTAAG3' P6: 5'GCGC <u>GTTAACT</u> CAAATGTTTGTCTTCACAGAG3'	pCMS1-IRES- RGPI	pCMS1-IL- 12p40-FG	pCMS1-IL-12p40- RG
P1: 5'GGCGGTCGAC <u>GAGCTC</u> ATGTGTCCTCAGAAGCT AACCATC3' P6: 5'GCGC <u>GTTAACT</u> CAAATGTTTGTCTTCACAGAG3'	pCMS1-IL- 12p40-RG	pCMS1-IRES	pCMS1-IRES-IL- 12p40-RG
P3: 5'GGCG <u>GTCGAC</u> ATGGTCAGCGTTCCAACAGCCTC 3' P4: 5' CGCG <u>GGCGCGCC</u> TCAGGCGGAGCTCAGATAGCC C3'	pGEM-IL-12A	pCMS1-IRES- IL-12p40-RG	pCMS1-IL-12p35- IRES-IL-12p40-RG