

Supplemental Table 1: Fusion break points for the validated genomic rearrangements in the GP3 and GP4 cancers.

Event	Position 1	Position 2	Junction Span	Fusion Sequenece
r (2-2)a	chr2: 111,532,439	chr2: 111,595,676	1494938	AGGGACTCTGAATAGCCAAA - G - CACCTATATATGAGTGTGCA
r (2-2)b	chr2: 111,875,953	chr2: 113,370,891	4403327	CGGACTGGGAGAAGGAAGTG - CCCTACTCTCTTCTGGCTTG
r (4-4)a	chr4: 121,955,371	chr4: 126,358,698	42925061	TGGTAAATTGACTTGGCGT - GG - ACTGAGAAATTTCTGTCCAG
r (4-4)b	chr4: 102,288,776	chr4: 145,213,837	24844609	TGGCTAATTTGTGTGTGTG - GAGAATATTTCTTTGTAATG
r (4-4)c	chr4: 121,967,956	chr4: 146,812,565	36076150	TCTTGTGATTCTGGACAAAT - AGTTTCCTCTGGATTTGA
r (4-4)d	chr4: 101,807,349	chr4: 137,883,499	39097655	GTC AATGCATTCTTCACTGC - AACACTGGAGCACAGATATA
r (4-4)e	chr4: 107,030,113	chr4: 146,127,768	6828701	TGGTGGCAGGCAAGAGAGCT - CAACGACAACCAACCTGAAA
r (6-6)	chr6: 97,666,135	chr6: 104,494,836	57210211	AATTCACTAGTTATCAITGA - GGGAGAAAAAAGGTCCCTAT
r (11-11)	chr11: 68,314,607	chr11: 125,524,818	32961623	TCCATAGGCAGTGAGGGTTT - CATATCCAATTTAAATCCC
t (8-11)a	chr8: 100,826,029	chr11: 67,864,406	n/a	AAATGTCATTGTTGTTTAA - TTTGC - TGAGATACCTTGGAAAGAGA
t (8-11)b	chr11: 100,475,064	chr11: 125,524,767	n/a	GCTTCTCTCTCTTGGTCGT - TAACTATACAACCTAAACTG
t (2-23)	chr2: 105,357,774	chrX: 217,536,963	n/a	TTGAATAAGTTACCAAAAAGA - TGGTTTTTTAATTCCTTAAG
t (7-17)	chr7: 13,909,717	chr17: 7,969,926	n/a	TGTATCTGCATTGGTGCT - GGTCAAACCTTGGTTCAGAA
t (17-19)	chr17: 53,592,759	chr19: 45,959,687	n/a	TGTCGCAACTTAAAAGTCTT - TGGGAGGCCCTGACTCCAC
t (1-12)	chr1: 213,127,018	chr12: 89,406,958	n/a	TCATTCACTTAAAATCTCTG - TCC - CACAATAACTTTACCTTTGA
t (12-1)	chr12: 89,407,157	chr1: 213,127,057	n/a	GATTAACAGTATTGCTTGA - AAGTCTGGTCTATTCCCATTTTATAGATGAGAAAACTAAG
r (12-12)	chr12: 213,127,018	chr12: 213,127,061	n/a	AAGTCTGGTCTATTCCCATTTTATAGATGAGAAAAAC - TAAG - TTCTTTCCAGCTCTAAAATC

