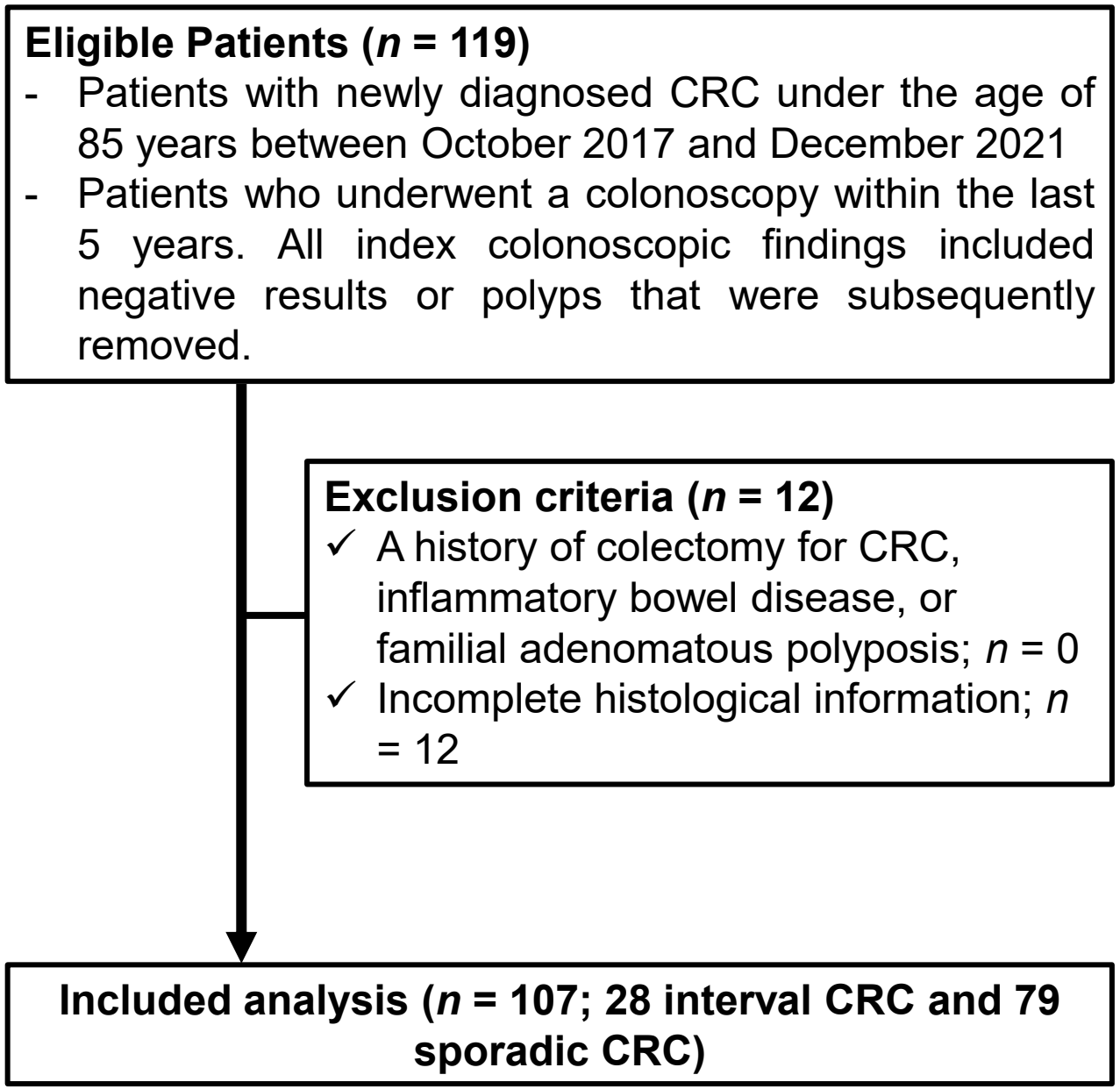
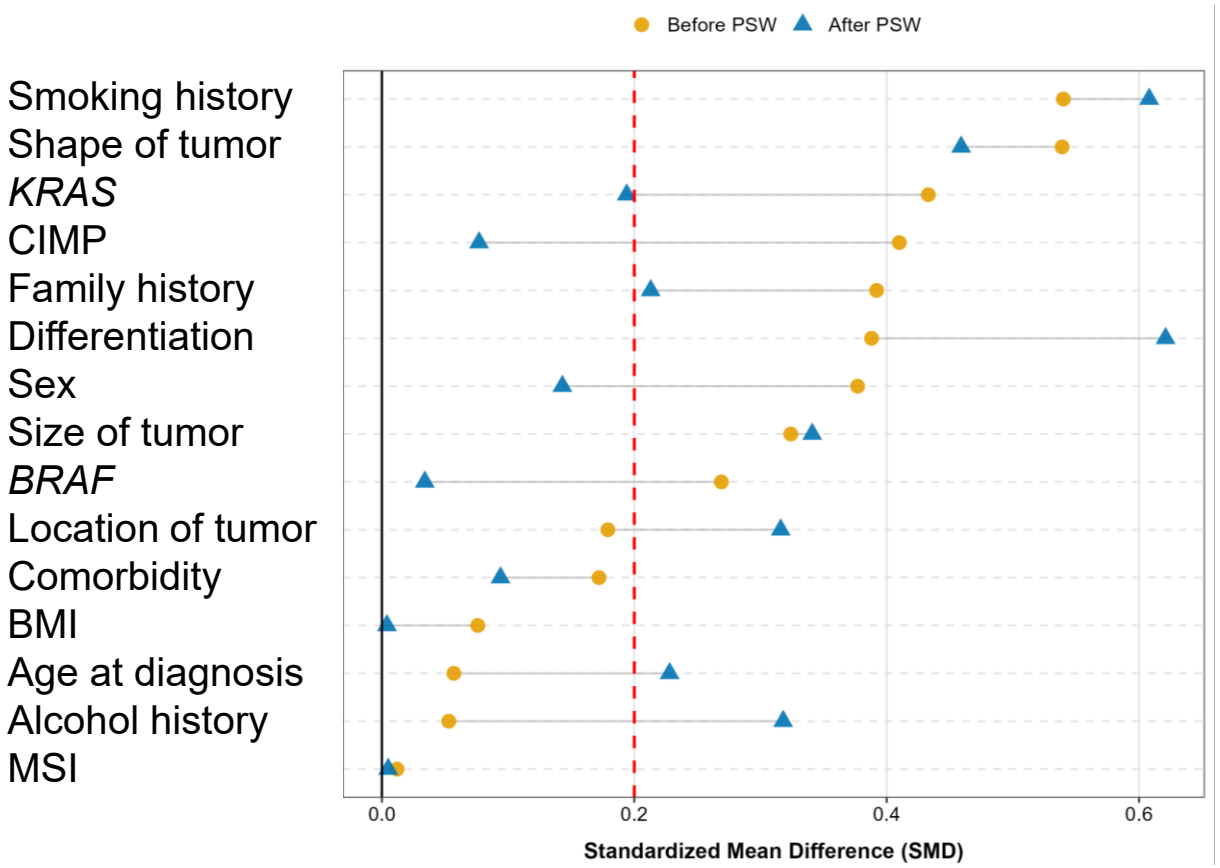
# Supple Fig 1

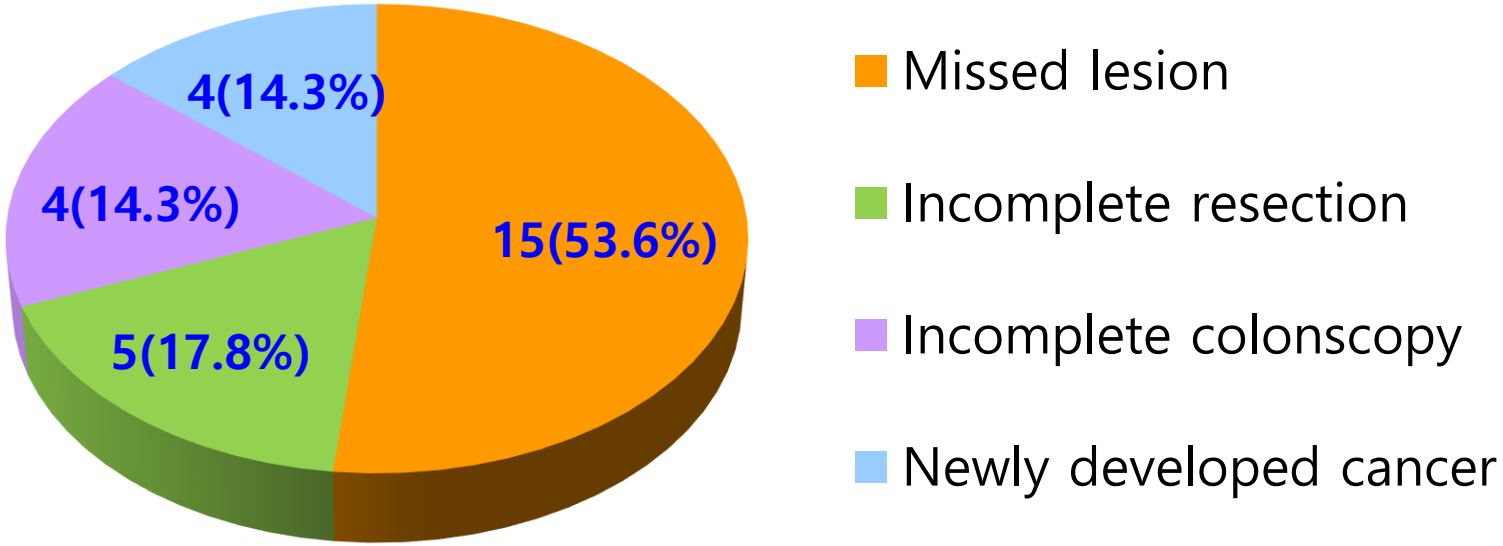

**Eligible Patients (*n* = 119)**
- Patients with newly diagnosed CRC under the age of 85 years between October 2017 and December 2021
- Patients who underwent a colonoscopy within the last 5 years. All index colonoscopic findings included negative results or polyps that were subsequently removed.
**Exclusion criteria (*n* = 12)**
✓ A history of colectomy for CRC, inflammatory bowel disease, or familial adenomatous polyposis; *n* = 0
✓ Incomplete histological information; *n* = 12
**Included analysis (*n* = 107; 28 interval CRC and 79 sporadic CRC)**

# Supple Fig 2

Covariate balance before and after PSW



# Supple Fig 3


4(14.3%)
4(14.3%)
15(53.6%)
5(17.8%)
Missed lesion
Incomplete resection
Incomplete colonscopy
Newly developed cancer

# Supple Fig 4

(A)

| | | | | | | | | | | | | | | | | | | | | | | | Median | | | | | | | | — = 0/+ = 1 | | KRAS codon 12&13 Pyrosequencing | | | BRAF V600E Pyrosequencing | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CACNA1G | | | CRABP1 | | | IGF2 | | | MLH1 | | | NEUROG1 | | | p16 | | | RUNX3 | | | SOCS1 | | | CACNA1G | CRABP1 | IGF2 | MLH1 | NEUROG1 | p16 | RUNX3 | SOCS1 | CIMP | Gene No. | KRAS | BAT26 | | A Frequency (%) | T Frequency (%) | BRAF Genotype | |
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | | | | | | | | | | | | | | | | | |
| KYU-057C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.9 | 96.1 | T/T | Wt |
| KYU-059C | 0.0 | 0.0 | 0.0 | 4.1 | 5.7 | 9.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 12.7 | 21.4 | 0.0 | 5.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 12.7 | CIMP- | 2 | wt | MSI | | 7.81 | 92.19 | T/T | Wt |
| KYU-060C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.04 | 96.96 | T/T | Wt |
| KYU-062C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 5.15 | 94.85 | T/T | Wt |
| KYU-063C | 8.6 | 0.0 | 5.3 | 3.6 | 7.3 | 12.8 | 0.2 | 18.7 | 22.6 | 26.6 | 12.3 | 35.0 | 9.2 | 20.5 | 15.8 | 0.0 | 0.0 | 0.3 | 5.6 | 14.6 | 0.0 | 0.0 | 0.0 | 4.1 | 5.3 | 7.3 | 18.7 | 26.6 | 15.8 | 0.0 | 5.6 | 0.0 | CIMP+ | 6 | wt | MSS | | 15.01 | 84.99 | A/T | Mt |
| KYU-092C | 25.2 | 77.8 | 11.4 | 67.6 | 27.3 | 26.4 | 29.7 | 17.5 | 2.2 | 0.0 | 0.0 | 0.0 | 71.8 | 16.0 | 105.7 | 0.0 | 0.0 | 0.0 | 34.4 | 0.0 | 94.8 | 0.0 | 0.0 | 0.0 | 25.2 | 27.3 | 17.5 | 0.0 | 71.8 | 0.0 | 34.4 | 0.0 | CIMP+ | 5 | wt | MSS | | 4.78 | 95.22 | T/T | Wt |
| KYU-093C | 0.0 | 0.0 | 0.0 | 6.9 | 0.0 | 0.6 | 0.0 | 12.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.41 | 95.59 | T/T | Wt |
| KYU-094C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G13D | MSS | | 3.39 | 96.61 | T/T | Wt |
| KYU-095C | 0.0 | 0.0 | 0.0 | 5.4 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 56.2 | 17.7 | 23.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | 0.0 | 0.0 | 0.0 | 23.7 | 0.0 | 0.0 | CIMP- | 2 | wt | MSS | | 2.5 | 97.5 | T/T | Wt |
| KYU-118C | 0.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.6 | 0.1 | 0.0 | 0.1 | 8.7 | 13.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 8.7 | 0.0 | 0.0 | CIMP- | 1 | G13D | MSS | | 2.91 | 97.09 | T/T | Wt |
| KYU-119C | 60.8 | 261.4 | 95.0 | 62.1 | 84.6 | 59.9 | 22.3 | 64.1 | 58.8 | 89.1 | 215.5 | 67.1 | 64.9 | 295.3 | 68.8 | 117.7 | 243.8 | 60.9 | 42.0 | 199.7 | 73.6 | 0.0 | 0.0 | 0.0 | 95.0 | 62.1 | 58.8 | 89.1 | 68.8 | 117.7 | 73.6 | 0.0 | CIMP+ | 7 | wt | MSS | | 3.09 | 96.91 | T/T | Wt |
| KYU-120C | 5.6 | 160.5 | 22.6 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 2.86 | 97.14 | T/T | Wt |
| KYU-109C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.45 | 95.55 | T/T | Wt |
| KYU-110C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 2.09 | 97.91 | T/T | Wt |
| KYU-111C | 0.0 | 0.0 | 0.0 | 4.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.62 | 97.38 | T/T | Wt |
| KYU-112C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 22.1 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.83 | 97.17 | T/T | Wt |
| KYU-113C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.64 | 97.36 | T/T | Wt |
| KYU-114C | 52.0 | 176.7 | 25.6 | 67.6 | 59.0 | 29.6 | 30.3 | 2.2 | 31.8 | 0.0 | 0.0 | 0.0 | 17.3 | 82.4 | 18.9 | 80.6 | 76.0 | 30.3 | 43.1 | 0.0 | 25.6 | 0.0 | 0.0 | 0.0 | 52.0 | 59.0 | 30.3 | 0.0 | 18.9 | 76.0 | 25.6 | 0.0 | CIMP+ | 6 | wt | MSS | | 17.98 | 82.02 | A/T | Mt |
| KYU-115C | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 8.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 | 0.0 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 5.92 | 94.08 | T/T | Wt |
| KYU-116C | 0.0 | 0.0 | 0.0 | 21.6 | 19.8 | 13.0 | 7.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.5 | 10.4 | 24.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 0.0 | 0.0 | 0.0 | 24.5 | 0.0 | 0.0 | CIMP- | 2 | wt | MSS | | 4.56 | 95.44 | T/T | Wt |
| KYU-117C | 89.3 | 50.9 | 53.9 | 72.9 | 28.1 | 72.9 | 22.3 | 25.3 | 20.6 | 0.0 | 0.0 | 0.0 | 66.5 | 32.1 | 51.0 | 94.8 | 49.6 | 98.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 53.9 | 72.9 | 22.3 | 0.0 | 51.0 | 94.8 | 0.0 | 0.0 | CIMP+ | 5 | wt | MSS | | 16.47 | 83.53 | A/T | Mt |
| KYU-121C | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 6.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 3.91 | 96.09 | T/T | Wt |
| KYU-122C | 0.0 | 0.0 | 0.0 | 11.9 | 0.0 | 1.4 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | 0.1 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 9.18 | 90.82 | T/T | Wt |
| KYU-123C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | N/A | MSS | N/A | N/A | N/A | N/A |
| KYU-124C | 0.0 | 0.0 | 0.0 | 0.0 | 19.8 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.08 | 96.92 | T/T | Wt |
| KYU-125C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 2.93 | 97.07 | T/T | Wt |
| KYU-126C | 0.0 | 0.0 | 0.0 | 14.7 | 13.5 | 12.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 6.2 | 9.1 | 0.3 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 13.5 | 0.0 | 0.0 | 6.2 | 0.3 | 0.0 | 0.0 | CIMP- | 2 | G12D | MSS | | 2.61 | 97.39 | T/T | Wt |
| KYU-127C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.51 | 96.49 | T/T | Wt |

(B)

| | CACNA1G | | | CRABP1 | | | IGF2 | | | MLH1 | | | NEUROG1 | | | p16 | | | RUNX3 | | | SOCS1 | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd | 1st | 2nd | 3rd |
| KYU-001C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-002C | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 11.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-003C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.0 | 0.2 |
| KYU-004C | 0.0 | 0.0 | 0.0 | 0.4 | 0.9 | 0.4 | 0.0 | 2.7 | 0.4 | 0.0 | 0.0 | 0.0 | 0.6 | 0.0 | 0.7 | 0.0 | 2.2 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-005C | 0.0 | 0.0 | 5.7 | 10.3 | 12.0 | 15.5 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.9 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-006C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-007C | 1.2 | 1.1 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.9 | 3.3 | 12.8 | 0.0 | 1.4 | 0.4 | 0.0 | 0.0 | 0.0 | 24.5 | 26.4 | 34.9 |
| KYU-008C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-010C | 0.0 | 0.0 | 0.0 | 17.2 | 0.8 | 5.7 | 13.5 | 16.1 | 0.0 | 31.4 | 16.5 | 12.6 | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-013C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-014C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-015C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 |
| KYU-016C | 11.8 | 68.0 | 32.7 | 32.7 | 50.4 | 54.9 | 37.6 | 54.1 | 13.9 | 73.8 | 100.5 | 74.0 | 106.7 | 46.1 | 81.6 | 81.7 | 62.7 | 42.9 | 65.1 | 51.4 | 67.0 | 0.0 | 0.0 | 0.0 |
| KYU-017C | 0.0 | 0.0 | 0.0 | 0.0 | 5.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-019C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-024C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-025C | 0.0 | 0.0 | 0.0 | 3.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 66.8 | 61.6 | 41.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-026C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-027C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 21.2 | 0.0 | 0.0 | 0.0 | 0.0 | 2.0 | 0.0 | 3.0 |
| KYU-028C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-029C | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-030C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-031C | 0.0 | 0.0 | 0.0 | 6.7 | 12.6 | 13.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-032C | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-033C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-035C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-036C | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-037C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 | 9.4 | 28.4 | 1.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-038C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-039C | 45.4 | 24.1 | 19.9 | 14.7 | 1.3 | 21.6 | 0.0 | 14.6 | 69.1 | 41.3 | 59.3 | 14.8 | 77.5 | 27.6 | 52.4 | 56.1 | 84.8 | 87.9 | 28.2 | 28.6 | 20.3 | 37.9 | 17.4 | 5.9 |
| KYU-040C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-041C | 0.0 | 0.0 | 0.0 | 0.5 | 1.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 5.1 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-042C | 0.0 | 0.0 | 0.0 | 4.9 | 8.2 | 5.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.5 | 8.2 | 9.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-043C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 24.2 | 9.0 | 7.1 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-044C | 0.0 | 0.0 | 0.0 | 7.9 | 1.6 | 19.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 2.9 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-046C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.7 | 0.0 | 0.0 |
| KYU-047C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-048C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.1 | 22.0 | 28.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-049C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-050C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 21.4 | 11.7 | 7.1 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-051C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.7 | 32.0 | 27.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-052C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-053C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-055C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-056C | 0.0 | 0.0 | 0.0 | 0.0 | 11.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 15.7 | 0.0 | 16.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-096C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-097C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-099C | 0.0 | 0.0 | 0.0 | 3.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-100C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 |
| KYU-101C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-102C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.3 | 0.0 | 0.0 | 0.0 | 0.0 | 2.3 | 0.0 | 0.0 | 0.0 |
| KYU-103C | 0.0 | 0.0 | 0.0 | 2.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 148.6 | 132.6 | 66.7 | 55.0 | 81.8 | 34.8 | 48.5 | 153.5 | 36.1 | 0.0 | 0.0 | 0.0 |
| KYU-104C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-105C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 | 0.0 | 0.0 | 4.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| KYU-106C | 0.0 | 0.0 | 0.0 | 93.6 | 186.5 | 64.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 31.7 | 121.7 | 54.6 | 146.6 | 261.2 | 106.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-108C | 0.0 | 0.0 | 0.0 | 9.8 | 2.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.4 | 8.8 | 0.0 | 0.0 | 0.0 | 10.4 | 5.4 | 9.9 |
| KYU-064C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-065C | 0.0 | 0.0 | 0.0 | 54.0 | 44.9 | 71.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 69.8 | 70.5 | 69.4 | 0.0 | 0.0 | 2.5 | 0.0 | 0.0 | 0.0 | 0.1 | 0.2 | 0.0 |
| KYU-066C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-067C | 172.9 | 329.1 | 270.2 | 155.7 | 139.7 | 117.0 | 40.2 | 0.0 | 131.4 | 0.0 | 0.1 | 0.0 | 97.7 | 97.4 | 119.9 | 0.0 | 0.0 | 0.0 | 145.7 | 85.5 | 157.7 | 0.0 | 0.0 | 0.0 |
| KYU-068C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 25.1 | 19.3 | 80.2 |
| KYU-069C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 5.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 |
| KYU-070C | 0.0 | 0.0 | 0.0 | 6.6 | 10.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.6 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-071C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 13.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 9.2 | 3.4 | 0.0 | 0.5 | 17.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-072C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-073C | 0.0 | 0.0 | 0.0 | 55.6 | 88.6 | 59.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 8.1 | 18.4 | 22.6 | 0.0 | 3.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-074C | 0.0 | 0.0 | 0.0 | 0.2 | 0.0 | 0.0 | 21.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-075C | 0.0 | 0.0 | 0.0 | 68.6 | 85.2 | 55.3 | 80.3 | 0.0 | 78.5 | 0.0 | 0.0 | 0.0 | 14.5 | 57.9 | 39.2 | 42.2 | 83.7 | 90.8 | 50.0 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-076C | 0.0 | 0.0 | 0.0 | 11.6 | 67.3 | 28.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.5 | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-079C | 0.0 | 0.0 | 1.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 10.9 | 46.4 | 26.8 | 32.0 | 127.1 | 61.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-080C | 0.0 | 0.0 | 0.0 | 1.3 | 13.8 | 0.0 | 14.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 6.1 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-081C | 0.0 | 0.0 | 0.0 | 0.4 | 22.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 47.7 | 50.0 | 40.9 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-082C | 0.0 | 0.0 | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-083C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-084C | 41.5 | 139.4 | 40.3 | 27.9 | 79.4 | 94.7 | 0.0 | 109.3 | 0.0 | 40.9 | 52.5 | 74.2 | 73.1 | 64.9 | 76.8 | 8.6 | 58.8 | 39.2 | 88.8 | 63.7 | 134.3 | 1.7 | 0.0 | 0.0 |
| KYU-085C | 0.0 | 0.0 | 0.0 | 1.5 | 3.5 | 6.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-086C | 0.0 | 0.0 | 0.0 | 3.5 | 11.6 | 2.3 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 6.2 | 12.8 | 26.5 | 3.1 | 2.9 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-087C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| KYU-088C | 0.0 | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| | Median | | | | | | | | | | KRAS codon 12&13 Pyrosequencing | | | BRAF V600E Pyrosequencing | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | CACNA1G | CRABP1 | IGF2 | MLH1 | NEUROG1 | p16 | RUNX3 | SOCS1 | CIMP | Gene No. | KRAS | BAT26 | | A Frequency (%) | T Frequency (%) | BRAF Genotype | |
| KYU-001C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.75 | 95.25 | T/T | Wt |
| KYU-002C | 0.0 | 0.0 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | G13D | MSS | | 3.32 | 96.68 | T/T | Wt |
| KYU-003C | 0.0 | 0.0 | 0.0 | 0.0 | 1.6 | 0.0 | 0.0 | 0.2 | CIMP- | 0 | wt | MSS | | 3.4 | 96.6 | T/T | Wt |
| KYU-004C | 0.0 | 0.4 | 0.4 | 0.0 | 0.6 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.83 | 97.17 | T/T | Wt |
| KYU-005C | 0.0 | 12.0 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 3.95 | 96.05 | T/T | Wt |
| KYU-006C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.02 | 96.98 | T/T | Wt |
| KYU-007C | 1.2 | 0.0 | 0.0 | 0.0 | 3.3 | 0.4 | 0.0 | 26.4 | CIMP- | 1 | G12V | MSS | | 3 | 97 | T/T | Wt |
| KYU-008C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.29 | 96.71 | T/T | Wt |
| KYU-010C | 0.0 | 5.7 | 13.5 | 16.5 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 3 | G13D | MSS | | 6.9 | 93.1 | T/T | Wt |
| KYU-013C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G13D | MSS | | 4.78 | 95.22 | T/T | Wt |
| KYU-014C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12D | MSS | | 4.83 | 95.17 | T/T | Wt |
| KYU-015C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12S | MSS | | 4.1 | 95.9 | T/T | Wt |
| KYU-016C | 32.7 | 50.4 | 37.6 | 74.0 | 81.6 | 62.7 | 65.1 | 0.0 | CIMP+ | 7 | wt | MSI | | 3.07 | 96.93 | T/T | Wt |
| KYU-017C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.96 | 95.04 | T/T | Wt |
| KYU-019C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.27 | 96.73 | T/T | Wt |
| KYU-024C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.8 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 2.92 | 97.08 | T/T | Wt |
| KYU-025C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 61.6 | 0.0 | 0.0 | CIMP- | 1 | G12A | MSS | | 3.04 | 96.96 | T/T | Wt |
| KYU-026C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 6.21 | 93.79 | T/T | Wt |
| KYU-027C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 4.9 | 0.0 | 2.0 | CIMP- | 1 | wt | MSS | | 7.49 | 92.51 | T/T | Wt |
| KYU-028C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSI | | 2.95 | 97.05 | T/T | Wt |
| KYU-029C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.1 | 96.9 | T/T | Wt |
| KYU-030C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.37 | 95.63 | T/T | Wt |
| KYU-031C | 0.0 | 12.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 8.09 | 91.91 | T/T | Wt |
| KYU-032C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.33 | 96.67 | T/T | Wt |
| KYU-033C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12R | MSS | | 7.51 | 92.49 | T/T | Wt |
| KYU-035C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 6.51 | 93.49 | T/T | Wt |
| KYU-036C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 4.15 | 95.85 | T/T | Wt |
| KYU-037C | 0.0 | 0.0 | 0.0 | 0.0 | 9.4 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | G12D | MSS | | 2.76 | 97.24 | T/T | Wt |
| KYU-038C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12S | MSS | | 3.48 | 96.52 | T/T | Wt |
| KYU-039C | 24.1 | 14.7 | 14.6 | 41.3 | 52.4 | 84.8 | 28.2 | 17.4 | CIMP+ | 8 | wt | MSI | | 33.44 | 66.56 | A/T | Mt |
| KYU-040C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 8.72 | 91.28 | T/T | Wt |
| KYU-041C | 0.0 | 0.5 | 0.0 | 0.0 | 0.4 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.72 | 96.28 | T/T | Wt |
| KYU-042C | 0.0 | 5.9 | 0.0 | 0.0 | 8.2 | 0.0 | 0.0 | 0.0 | CIMP- | 2 | G12C | MSS | | 3 | 97 | T/T | Wt |
| KYU-043C | 0.0 | 0.0 | 0.0 | 0.0 | 9.0 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 3.05 | 96.95 | T/T | Wt |
| KYU-044C | 0.0 | 7.9 | 0.0 | 0.0 | 2.9 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 2.9 | 97.1 | T/T | Wt |
| KYU-046C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.59 | 97.41 | T/T | Wt |
| KYU-047C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12D | MSS | | 3.12 | 96.88 | T/T | Wt |
| KYU-048C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 22.0 | 0.0 | 0.0 | CIMP- | 1 | G13D | MSS | | 3.68 | 96.32 | T/T | Wt |
| KYU-049C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 8.35 | 91.65 | T/T | Wt |
| KYU-050C | 0.0 | 0.0 | 0.0 | 0.0 | 11.7 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 3.74 | 96.26 | T/T | Wt |
| KYU-051C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 28.7 | 0.0 | 0.0 | CIMP- | 1 | wt | MSS | | 2.94 | 97.06 | T/T | Wt |
| KYU-052C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.23 | 96.77 | T/T | Wt |
| KYU-053C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.59 | 97.41 | T/T | Wt |
| KYU-055C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.65 | 96.35 | T/T | Wt |
| KYU-056C | 0.0 | 0.0 | 0.0 | 0.0 | 15.7 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | G13D | MSS | | 8.61 | 91.39 | T/T | Wt |
| KYU-096C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.46 | 97.54 | T/T | Wt |
| KYU-097C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12A | MSS | | 3.69 | 96.31 | T/T | Wt |
| KYU-099C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 8.11 | 91.89 | T/T | Wt |
| KYU-100C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.44 | 97.56 | T/T | Wt |
| KYU-101C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G12V | MSS | | 3.57 | 96.43 | T/T | Wt |
| KYU-102C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | G13D | MSS | | 6.34 | 93.66 | T/T | Wt |
| KYU-103C | 0.0 | 0.0 | 0.0 | 0.0 | 132.6 | 55.0 | 48.5 | 0.0 | CIMP- | 3 | G12A | MSS | | 3.09 | 96.91 | T/T | Wt |
| KYU-104C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.4 | 97.6 | T/T | Wt |
| KYU-105C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.53 | 97.47 | T/T | Wt |
| KYU-106C | 0.0 | 93.6 | 0.0 | 0.0 | 54.6 | 146.6 | 0.0 | 0.0 | CIMP- | 3 | G12S | MSS | | 2.66 | 97.34 | T/T | Wt |
| KYU-108C | 0.0 | 2.4 | 0.0 | 0.0 | 0.0 | 2.4 | 0.0 | 9.9 | CIMP- | 1 | wt | MSS | | 3.2 | 96.8 | T/T | Wt |
| KYU-064C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.35 | 97.65 | T/T | Wt |
| KYU-065C | 0.0 | 54.0 | 0.0 | 0.0 | 69.8 | 0.0 | 0.0 | 0.1 | CIMP- | 2 | G13D | MSS | | 3.37 | 96.63 | T/T | Wt |
| KYU-066C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.34 | 96.66 | T/T | Wt |
| KYU-067C | 270.2 | 139.7 | 40.2 | 0.0 | 97.7 | 0.0 | 145.7 | 0.0 | CIMP+ | 5 | wt | MSS | | 26.83 | 73.17 | A/T | Mt |
| KYU-068C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 25.1 | CIMP- | 1 | wt | MSS | | 3.49 | 96.51 | T/T | Wt |
| KYU-069C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.96 | 97.04 | T/T | Wt |
| KYU-070C | 0.0 | 6.6 | 0.0 | 0.0 | 0.0 | 6.5 | 0.0 | 0.0 | CIMP- | 2 | G12V | MSS | | 2.61 | 97.39 | T/T | Wt |
| KYU-071C | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 | 0.5 | 0.0 | 0.0 | CIMP- | 0 | G12D | MSS | | 2.98 | 97.02 | T/T | Wt |
| KYU-072C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.08 | 96.92 | T/T | Wt |
| KYU-073C | 0.0 | 59.5 | 0.0 | 0.0 | 18.4 | 0.0 | 0.0 | 0.0 | CIMP- | 2 | wt | MSS | | 2.8 | 97.2 | T/T | Wt |
| KYU-074C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.24 | 96.76 | T/T | Wt |
| KYU-075C | 0.0 | 68.6 | 78.5 | 0.0 | 39.2 | 83.7 | 0.2 | 0.0 | CIMP- | 4 | G13D | MSS | | 2.71 | 97.29 | T/T | Wt |
| KYU-076C | 0.0 | 28.6 | 0.0 | 0.0 | 4.5 | 0.0 | 0.0 | 0.0 | CIMP- | 2 | wt | MSS | | 3.59 | 96.41 | T/T | Wt |
| KYU-079C | 0.0 | 0.0 | 0.0 | 0.0 | 26.8 | 61.8 | 0.0 | 0.0 | CIMP- | 2 | wt | MSS | | 3.5 | 96.5 | T/T | Wt |
| KYU-080C | 0.0 | 1.3 | 0.0 | 0.0 | 4.4 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | G12V | MSS | | 3.45 | 96.55 | T/T | Wt |
| KYU-081C | 0.0 | 0.4 | 0.0 | 0.0 | 47.7 | 0.0 | 0.0 | 0.0 | CIMP- | 1 | G12D | MSS | | 6.59 | 93.41 | T/T | Wt |
| KYU-082C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.14 | 97.86 | T/T | Wt |
| KYU-083C | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 6.01 | 93.99 | T/T | Wt |
| KYU-084C | 41.5 | 79.4 | 0.0 | 52.5 | 73.1 | 39.2 | 88.8 | 0.0 | CIMP+ | 6 | wt | MSS | | 19.23 | 80.77 | A/T | Mt |
| KYU-085C | 0.0 | 3.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.35 | 97.65 | T/T | Wt |
| KYU-086C | 0.0 | 3.5 | 0.0 | 0.0 | 12.8 | 2.9 | 0.0 | 0.0 | CIMP- | 1 | G12D | MSS | | 2.64 | 97.36 | T/T | Wt |
| KYU-087C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 3.79 | 96.21 | T/T | Wt |
| KYU-088C | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | CIMP- | 0 | wt | MSS | | 2.83 | 97.17 | T/T | Wt |