

Table S1. Effects of markers (Silico and SNPs) associated with traits found in GWAM with allelic substitution effects (significant associations selected at $p < 0.05$ with correction for multiple testing by the Benjamini-Hochberg method).

| Marker type | Marker ID | SNP Position REF>ALT* | Frequency of alleles | | Trait | | | | | | | | | | | | | | |
|-------------|-----------|--------------------------|----------------------|------|-------|-------|-------|------|-----|------|--------|-------|---------|-------|-------|------|------|------|--|
| | | | REF | ALT | ACGC | NDSA | NDSSE | ACSi | ACA | TACG | TAMALB | TCLB | TLMAHLB | TNPLB | ACSh | ACI | PH | HFC | |
| Silico | 4778852 | | 0.68 | 0.32 | | | -2.41 | | | | | | | | | | | | |
| Silico | 5586702 | | 0.59 | 0.41 | | | | | | | -0.68 | | | | | | | | |
| Silico | 100000720 | | 0.62 | 0.38 | | | | | | | | | | | | | | 4.45 | |
| Silico | 100000766 | | 0.66 | 0.34 | | | | | | | | -0.62 | | | | | | | |
| Silico | 9693684 | | 0.65 | 0.35 | | | | | | | | 0.52 | | | | | | | |
| Silico | 100000820 | | 0.70 | 0.30 | | | | | | | | -0.52 | | | | | | | |
| Silico | 7050921 | | 0.70 | 0.30 | | | | | | | | | | | -0.62 | | | | |
| Silico | 2432661 | | 0.71 | 0.29 | | | | | | | | | | | | - | 0.67 | | |
| Silico | 100000914 | | 0.56 | 0.44 | -0.84 | | | | | | | | | | | | | | |
| Silico | 100000977 | | 0.53 | 0.47 | | | | | | | 0.69 | | | | | | | | |
| Silico | 4581349 | | 0.58 | 0.42 | | | | | | | | | | -0.42 | | | | | |
| Silico | 100001041 | | 0.53 | 0.47 | | | | | | | | | | | | 0.67 | | | |
| Silico | 100001118 | | 0.62 | 0.38 | | | | | | | | | | | 0.54 | | | | |
| Silico | 4591274 | | 0.63 | 0.73 | | -2.02 | -2.18 | | | | | | | | | | | | |
| Silico | 2451518 | | 0.67 | 0.33 | | | | | | | -0.76 | | | | | | | | |
| Silico | 100001217 | | 0.60 | 0.40 | | | | | | | | | | 0.40 | | | | | |
| Silico | 9634523 | | 0.59 | 0.41 | | | | | | | | | | | 0.57 | | | | |
| Silico | 100001252 | | 0.51 | 0.49 | | | | | | | | | | -0.46 | | | | | |
| Silico | 2493318 | | 0.59 | 0.41 | | | | | | | | | | | | 0.63 | | | |
| Silico | 100001288 | | 0.54 | 0.46 | | | | | | | | | | | | 0.76 | | | |
| Silico | 100001290 | | 0.52 | 0.48 | | | | | | | 0.85 | | | | | | | | |

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|--------|-----------|------|------|-------|-------|------|-------|-------|-------|-------|
| Silico | 21680386 | 0.54 | 0.46 | | | | | | 0.37 | |
| Silico | 2449731 | 0.69 | 0.31 | | | | | | -0.39 | |
| | | 0.53 | 0.47 | | | | | | | - |
| Silico | 2515965 | | | | | | | | | 0.64 |
| Silico | 2505048 | 0.70 | 0.30 | | 2.18 | | | | | |
| Silico | 4779023 | 0.56 | 0.44 | | -2.07 | | | | | |
| Silico | 4767754 | 0.54 | 0.46 | | 2.76 | | | | | |
| Silico | 4777576 | 0.63 | 0.37 | | | | | | -0.49 | |
| Silico | 4591368 | 0.56 | 0.44 | | | | -0.73 | | | |
| Silico | 4578353 | 0.62 | 0.38 | | -0.74 | | | | | |
| Silico | 2393694 | 0.53 | 0.47 | | | | | | | 0.68 |
| Silico | 4592941 | 0.61 | 0.39 | 0.84 | | | | | | |
| Silico | 4575695 | 0.59 | 0.41 | | | | | 0.61 | | |
| Silico | 4576551 | 0.62 | 0.38 | | | | | | 0.41 | |
| Silico | 2434873 | 0.58 | 0.42 | | | | | 0.54 | | |
| Silico | 2615548 | 0.68 | 0.32 | 0.66 | | | | | | |
| Silico | 2441153 | 0.64 | 0.36 | | | | | -0.51 | | |
| Silico | 2572720 | 0.56 | 0.44 | | 2.06 | | | | | |
| Silico | 100002010 | 0.66 | 0.69 | | 2.27 | 2.21 | | | | |
| Silico | 2467321 | 0.62 | 1.15 | | 2.96 | 3.27 | | 0.67 | | |
| | | 0.61 | 0.77 | | | | | -0.59 | | - |
| Silico | 2562367 | | | | | | | | | 0.64 |
| Silico | 2453829 | 0.64 | 0.36 | | | | | | -0.42 | |
| Silico | 4583489 | 0.66 | 0.34 | -0.78 | | | | | | |
| Silico | 4764905 | 0.68 | 0.32 | | | | | | | 11.74 |
| Silico | 4768977 | 0.62 | 0.38 | | | | | | | -4.42 |
| Silico | 2388390 | 0.59 | 0.41 | | 2.10 | | | | | |
| Silico | 2380229 | 0.65 | 0.35 | | | | | | 0.67 | |
| Silico | 4770467 | 0.69 | 0.31 | 0.69 | | | | | | |

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|--------|-----------|------|------|-------|-------|-------|-------|-------|------|
| Silico | 100002084 | 0.65 | 0.71 | 2.67 | | | | | 6.59 |
| Silico | 100002093 | 0.69 | 0.31 | | | | 0.68 | | |
| Silico | 4575949 | 0.66 | 0.34 | 3.01 | | | | | |
| Silico | 2543171 | 0.60 | 1.19 | -2.12 | -2.71 | | | 0.66 | |
| Silico | 9646669 | 0.72 | 0.28 | | 1.91 | | | | |
| Silico | 4776119 | 0.69 | 0.31 | | | | | - | |
| | | | | | | | | 0.75 | |
| Silico | 2443226 | 0.52 | 1.44 | 2.11 | 2.48 | | | - | |
| | | | | | | | | 0.75 | |
| Silico | 4769635 | 0.59 | 0.41 | | -0.60 | | | | |
| Silico | 100002149 | 0.53 | 0.47 | | | | 0.60 | | |
| Silico | 4590886 | 0.61 | 0.39 | | | -0.50 | | | |
| Silico | 100002164 | 0.69 | 0.31 | | 2.15 | | | | |
| Silico | 100002165 | 0.69 | 0.62 | 2.64 | | | | - | |
| | | | | | | | | 0.94 | |
| Silico | 4580038 | 0.69 | 0.31 | | | -0.80 | | | |
| Silico | 4764755 | 0.56 | 0.44 | | | | | -0.41 | |
| Silico | 2459787 | 0.55 | 0.45 | | | 0.76 | | | |
| Silico | 9630624 | 0.64 | 0.36 | | | | 0.53 | | |
| Silico | 4593897 | 0.53 | 0.47 | | | | 0.62 | | |
| Silico | 21680081 | 0.62 | 0.38 | | | | 0.54 | | |
| Silico | 16724785 | 0.51 | 0.49 | | 0.66 | | | | |
| Silico | 4583389 | 0.56 | 0.44 | | | | | | 4.27 |
| Silico | 100002281 | 0.60 | 0.80 | 1.90 | 2.26 | | | | |
| Silico | 100002292 | 0.53 | 0.95 | -0.98 | | | -0.71 | | |
| Silico | 16724008 | 0.65 | 0.35 | | 2.95 | | | | |
| Silico | 100002311 | 0.60 | 0.40 | | | | | - | |
| | | | | | | | | 0.66 | |
| Silico | 7053929 | 0.59 | 0.41 | | 0.70 | | | | |
| Silico | 9625870 | 0.67 | 0.33 | | | -0.82 | | | |

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|--------|-----------|------|------|-------|-------|-------|-------|-------|-------|
| Silico | 7050987 | 0.62 | 0.38 | -0.76 | | | | | |
| Silico | 7058377 | 0.72 | 0.28 | | 2.57 | | | | |
| Silico | 4593852 | 0.66 | 0.34 | | 2.97 | | | | |
| Silico | 4576576 | 0.68 | 0.32 | | | | 0.58 | | |
| Silico | 100002432 | 0.68 | 0.65 | | 2.89 | | | | - |
| Silico | 9624354 | 0.59 | 0.41 | | 2.01 | | | | 0.97 |
| Silico | 9679167 | 0.65 | 0.35 | | | 3.43 | | | |
| Silico | 2495281 | 0.70 | 0.30 | | | | | | - |
| Silico | 5585039 | 0.69 | 0.31 | | | | | 0.36 | 1.08 |
| Silico | 5586451 | 0.56 | 0.44 | | | 2.32 | | | |
| Silico | 9626276 | 0.55 | 0.45 | | | | -0.94 | | |
| Silico | 2437315 | 0.54 | 0.46 | | | | | | - |
| Silico | 4774703 | 0.52 | 0.48 | | | -2.66 | | | 0.61 |
| Silico | 9679681 | 0.67 | 0.66 | | -2.00 | -1.93 | | | |
| Silico | 4585999 | 0.54 | 0.46 | | | -1.96 | | | |
| Silico | 5584399 | 0.56 | 0.44 | | | | 0.86 | | |
| Silico | 9669478 | 0.71 | 0.29 | | | | | | 15.78 |
| Silico | 9700013 | 0.63 | 0.37 | | | | | | 12.34 |
| Silico | 4582942 | 0.70 | 0.30 | | 2.82 | | | | |
| Silico | 9682300 | 0.51 | 0.49 | | | | -0.84 | | |
| Silico | 9626569 | 0.53 | 0.47 | | | | | -0.38 | |
| Silico | 7047697 | 0.68 | 0.32 | | 2.55 | | | | |
| Silico | 4768272 | 0.69 | 0.31 | | | | | 0.53 | |
| Silico | 2479835 | 0.59 | 0.41 | | | | | | - |
| Silico | 9690137 | 0.56 | 0.88 | | 2.48 | 2.81 | | | 0.85 |
| Silico | 9694682 | 0.60 | 0.40 | | | 3.11 | | | |

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|--------|----------|------|------|-------|-------|-------|-------|--|-------|-------|-------|------|
| SNP | 4581844 | 0.65 | 0.35 | | | | | | | - | | |
| SNP | 4582717 | 0.68 | 0.32 | | | | | | | 0.71 | | |
| SNP | 4575760 | 0.52 | 0.48 | | -2.05 | | | | | 0.74 | | |
| SNP | 7049087 | 0.72 | 0.28 | | -2.45 | | | | | | | |
| SNP | 4588629 | 0.53 | 1.42 | | 2.05 | | | | | - | 9.90 | |
| SNP | 4578734 | 0.67 | 1.33 | -0.91 | -2.25 | -2.46 | | | | 0.71 | | |
| SNP | 4577915 | 0.57 | 0.43 | | | | | | | 0.75 | | |
| SNP | 4576114 | 0.55 | 0.89 | | | | | | -0.50 | | | 4.43 |
| SNP | 7049478 | 0.60 | 0.40 | | | | | | -0.53 | 0.61 | | |
| SNP | 4576906 | 0.53 | 0.47 | | | | 0.68 | | | | | |
| SNP | 4576836 | 0.57 | 0.43 | | -1.72 | | | | | | | |
| SNP | 4592788 | 0.57 | 0.86 | | | -1.84 | | | | 0.51 | | |
| SNP | 4582907 | 0.52 | 0.48 | | | | 0.64 | | | | | |
| SNP | 4584915 | 0.65 | 0.35 | | | | | | | 0.53 | | |
| SNP | 4767698 | 0.60 | 0.40 | | | | | | | -0.46 | | |
| SNP | 4770352 | 0.70 | 0.30 | | | | 0.82 | | | | | |
| SNP | 4581826 | 0.60 | 0.40 | | | | | | -0.49 | | | |
| SNP | 7059865 | 0.54 | 0.92 | | 2.54 | 3.03 | | | | | | |
| SNP | 9701186 | 0.56 | 0.44 | | | | | | -0.61 | | | |
| Silico | 4775850 | 0.66 | 0.34 | | | | | | | 0.41 | | |
| SNP | 16725691 | 0.51 | 0.49 | | | | | | 0.62 | | | |
| SNP | 4778107 | 0.57 | 0.43 | | -2.03 | | | | | | | |
| SNP | 4770814 | 0.58 | 0.84 | | 2.38 | 2.68 | | | | | | |
| SNP | 4776723 | 0.53 | 0.47 | | | | -0.66 | | | | | |
| SNP | 4583764 | 0.63 | 0.37 | | | | | | -0.48 | | | |
| SNP | 2445150 | 0.59 | 0.41 | | | | | | | | 10.97 | |
| SNP | 4576866 | 0.60 | 0.40 | | | 2.67 | | | | | | |

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|--------|-----------|------|------|-------|-------|-------|--|-------|------|-------|------|--|--|-------|-------|------|-------|--|--|
| SNP | 7060833 | 0.68 | 0.32 | | -2.67 | | | | | | | | | | | | | | |
| Silico | 4765267 | 0.60 | 0.40 | | | | | | 0.50 | | | | | | | | | | |
| SNP | 4589214 | 0.51 | 0.99 | | | | | | | | | | | | 11.35 | 7.84 | | | |
| SNP | 4590030 | 0.54 | 0.46 | | | | | -0.57 | | | | | | | | | | | |
| SNP | 4583980 | 0.52 | 0.48 | | | | | -2.04 | | | | | | | | | | | |
| SNP | 2518079 | 0.68 | 0.32 | | | | | | | | | | | -0.62 | | | | | |
| SNP | 4777619 | 0.53 | 0.47 | | | 1.88 | | | | | | | | | | | | | |
| Silico | 2390931 | 0.66 | 0.34 | | | | | | | | | | | | 0.54 | | | | |
| SNP | 7060243 | 0.63 | 0.37 | 0.62 | | | | | | | | | | | | | | | |
| Silici | 4766343 | 0.66 | 0.34 | | | | | 2.02 | | | | | | | | | | | |
| SNP | 4586601 | 0.53 | 0.47 | | | | | | | | | | | | 0.68 | | | | |
| Silico | 4778895 | 0.52 | 0.48 | | | | | | | | | | | | 0.37 | | | | |
| SNP | 2479238 | 0.68 | 0.32 | | | | | | | | | | | | | | -0.52 | | |
| Silico | 100000332 | 0.55 | 0.45 | | | | | -2.23 | | | | | | | | | | | |
| SNP | 4593498 | 0.56 | 0.44 | 0.67 | | | | | | | | | | | | | | | |
| SNP | 7060505 | 0.71 | 0.29 | | | -2.75 | | | | | | | | | | | | | |
| SNP | 4575988 | 0.60 | 0.40 | | | | | | | | | | | | -0.62 | | | | |
| SNP | 4773530 | 0.61 | 0.39 | | | | | | | | | | | | -0.51 | | | | |
| Silico | 4775531 | 0.54 | 0.46 | | | | | | | | | | | | -0.55 | | | | |
| SNP | 9707399 | 0.64 | 0.36 | | | | | | 0.80 | | | | | | | | | | |
| SNP | 7059799 | 0.59 | 0.41 | | | | | | | 0.70 | | | | | | | | | |
| SNP | 4586817 | 0.53 | 0.47 | | | | | 1.98 | | | | | | | | | | | |
| Silico | 16725112 | 0.56 | 0.44 | | | | | | | -0.74 | | | | | | | | | |
| SNP | 4589328 | 0.68 | 0.63 | | | | | -2.19 | | | | | | | | | 0.76 | | |
| Silico | 4592102 | 0.72 | 0.28 | -0.76 | | | | | | | | | | | | | | | |
| SNP | 4772738 | 0.55 | 0.45 | -0.87 | | | | | | | | | | | | | | | |
| SNP | 7061374 | 0.56 | 0.44 | | | | | | | | 0.58 | | | | | | | | |
| SNP | 4577625 | 0.55 | 0.89 | | | | | | | -0.86 | | | | | | | - | | |
| | | | | | | | | | | | | | | | 0.70 | | | | |

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|--------|-----------|--|------|------|-------|-------|-------|-------|-----------|
| SNP | 4577625 | | 0.59 | 0.41 | | | -0.79 | | |
| SNP | 4772896 | | 0.68 | 0.32 | | | 0.77 | | |
| Silico | 9666967 | | 0.60 | 0.40 | -0.75 | | | | |
| SNP | 9701846 | | 0.65 | 0.35 | | | 0.77 | | |
| Silico | 100000368 | | 0.55 | 0.45 | | | | -0.52 | |
| Silico | 4768443 | | 0.51 | 0.98 | | 1.80 | 1.77 | | |
| SNP | 4764785 | | 0.65 | 0.35 | | | | | 0.68 |
| SNP | 7050483 | | 0.66 | 0.34 | | | | 0.46 | |
| Silico | 4778264 | | 0.57 | 0.43 | | | | 0.36 | |
| Silico | 7051609 | | 0.54 | 0.46 | | | -0.71 | | |
| Silico | 4576233 | | 0.59 | 0.41 | | | | 0.50 | |
| Silico | 2508332 | | 0.66 | 0.34 | | | | | 0.60 |
| Silico | 4588066 | | 0.58 | 0.84 | | -2.21 | | | 0.72 |
| Silico | 9669855 | | 0.70 | 0.30 | | | | -0.71 | |
| Silico | 4779929 | | 0.70 | 0.30 | | | -0.67 | | |
| Silico | 4586667 | | 0.55 | 0.45 | | -1.98 | | | |
| Silico | 2515902 | | 0.54 | 0.46 | | | | | 0.57 |
| Silico | 7051351 | | 0.68 | 0.32 | | | | -0.37 | |
| Silico | 9624307 | | 0.56 | 0.44 | | | | 0.58 | |
| Silico | 4591566 | | 0.60 | 0.40 | | | | -0.36 | |
| Silico | 2592246 | | 0.61 | 0.39 | | | | -0.77 | |
| Silico | 9681167 | | 0.58 | 0.42 | | | | | - 0.72 |
| Silico | 4587371 | | 0.54 | 0.46 | | | -0.62 | | |
| Silico | 2435892 | | 0.52 | 0.97 | | 1.90 | 2.02 | | |
| Silico | 7048006 | | 0.54 | 0.46 | | | | | 0.47 |
| Silico | 4774664 | | 0.60 | 0.40 | | -2.04 | | | |
| Silico | 4591904 | | 0.58 | 0.85 | | | | -0.52 | 0.65 |
| Silico | 4585663 | | 0.58 | 0.42 | | | | -0.61 | |

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|--------|-----------|------|------|-------|-------|------|-------|-------|-------|
| Silico | 4580542 | 0.72 | 0.28 | | | | 0.50 | | |
| Silico | 7053852 | 0.60 | 0.40 | | | | | | 4.58 |
| Silico | 4584283 | 0.63 | 0.37 | -2.50 | | | | | |
| Silico | 9628015 | 0.63 | 0.37 | | | | | 0.64 | |
| Silico | 9665124 | 0.52 | 0.48 | | | | | 0.55 | |
| Silico | 7053916 | 0.56 | 0.44 | -1.92 | | | | | |
| Silico | 7050893 | 0.51 | 0.49 | | | 0.79 | | | |
| Silico | 4769261 | 0.67 | 0.33 | 0.84 | | | | | |
| Silico | 16720795 | 0.57 | 0.43 | -2.21 | | | | | |
| Silico | 4776507 | 0.54 | 0.46 | | | | | 0.55 | |
| Silico | 4767650 | 0.59 | 0.41 | | -1.94 | | | | |
| Silico | 4585220 | 0.54 | 0.46 | | | 0.81 | | | |
| Silico | 7058553 | 0.68 | 0.32 | | | | | | 5.56 |
| Silico | 100000543 | 0.60 | 0.40 | | | | | 0.42 | |
| Silico | 4587749 | 0.68 | 0.32 | | | | | -0.62 | |
| Silico | 4585833 | 0.52 | 0.48 | | | | | 0.56 | |
| Silico | 4774305 | 0.63 | 0.37 | | | | 0.54 | | |
| Silico | 4765871 | 0.61 | 0.39 | | | | | | -0.49 |
| Silico | 4576824 | 0.51 | 0.49 | -0.83 | | | | | |
| Silico | 4577604 | 0.70 | 0.30 | | -3.04 | | | | |
| Silico | 4593337 | 0.57 | 0.43 | | -2.10 | | | | |
| Silico | 7054077 | 0.67 | 0.33 | | | | 0.50 | | |
| Silico | 4592058 | 0.56 | 0.44 | | -2.08 | | | | |
| Silico | 7047961 | 0.55 | 0.90 | -2.03 | -2.64 | | | | |
| Silico | 4579437 | 0.66 | 0.68 | | 2.14 | | | | -0.60 |
| Silico | 4585534 | 0.68 | 0.32 | | | | -0.52 | | |
| Silico | 4585588 | 0.58 | 0.42 | 0.61 | | | | | |
| Silico | 4579719 | 0.66 | 0.34 | | | 0.90 | | | |

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|--------|-----------|------|------|-------|----|----|----|-------|-------|-------|------|-------|----|----|----|----|-------|------|
| Silico | 4583924 | 0.51 | 0.49 | -2.10 | | | | | | | | | | | | | | |
| Silico | 7047169 | 0.65 | 0.35 | | | | | | | | | | | | | | 0.56 | |
| Silico | 4766434 | 0.64 | 0.36 | | | | | | | -0.45 | | | | | | | | |
| Silico | 4764784 | 0.66 | 0.34 | | | | | -0.78 | | | | | | | | | | |
| Silico | 4576771 | 0.61 | 0.39 | | | | | | | 0.48 | | | | | | | | |
| Silico | 4774853 | 0.55 | 0.45 | | | | | | | | | -0.74 | | | | | | |
| Silico | 4588492 | 0.68 | 0.32 | | | | | 1.06 | | | | | | | | | | |
| Silico | 9627504 | 0.70 | 0.30 | | | | | | | | | | | | | | | 4.86 |
| Silico | 9638854 | 0.58 | 0.42 | | | | | | | | | -0.68 | | | | | | |
| Silico | 4774828 | 0.53 | 0.47 | -1.93 | | | | | | | | | | | | | | |
| Silico | 4585343 | 0.63 | 0.37 | | | | | | | | | | | | | | 0.55 | |
| Silico | 21698627 | 0.50 | 0.50 | | | | | | | | | | | | | | -0.59 | |
| Silico | 4576226 | 0.58 | 0.42 | | | | | | | | | | | | | | 0.57 | |
| Silico | 4776458 | 0.70 | 0.30 | | | | | | | | | | | | | | 0.51 | |
| Silico | 4766629 | 0.52 | 0.48 | | | | | | | | 0.47 | | | | | | | |
| Silico | 4589770 | 0.51 | 0.49 | | | | | | 0.68 | | | | | | | | | |
| Silico | 4589146 | 0.72 | 0.28 | | | | | | -0.78 | | | | | | | | | |
| Silico | 4779031 | 0.68 | 0.32 | | | | | | | | | 0.56 | | | | | | |
| Silico | 4767556 | 0.58 | 0.42 | | | | | | -0.66 | | | | | | | | | |
| Silico | 100000608 | 0.68 | 0.32 | | | | | | | 0.54 | | | | | | | | |
| Total | | | | 31 | 66 | 77 | 10 | 17 | 22 | 27 | 36 | 51 | 29 | 31 | 54 | 11 | 19 | |

Table S2. The groups of lines from clustering by unweighted pair group method with arithmetic average (UPGMA) showed in Figure 3.

| Group number | Lines number |
|--------------|---|
| Group 1 | 2, 6, 9, 15, 16, 17, 18, 19, 21, 22, 25, 26, 27, 28, 29, 30, 31, 32, 35, 38, 39, 40, 41, 42, 51, 53, 60, 68, 69, 71, 74, 82, 93 |
| Group 2 | 80 |
| Group 3 | 3, 11, 36, 37, 52, 54, 56, 57, 58, 61, 65, 66, 67, 75, 79, 86, 87, 88, 91 |
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