

Table 2. Members of HsSINE3 family

| Rank | Location | Strand | SW score | Size | Consensus start | Consensus end | Rate of perfect 4-way identity |
|------|--------------------------|--------|----------|------|-----------------|---------------|--------------------------------|
| 1 | chr2:164247319-164247658 | + | 3400 | 340 | 1 | 340 | 95.58% |
| 2 | chr2:103864076-103864229 | - | 685 | 154 | 163 | 317 | 96.75% |
| 3 | chr2:144311557-144311716 | - | 595 | 160 | 173 | 335 | 87.50% |
| 4 | chr12:64746398-64746673 | + | 555 | 276 | 60 | 338 | 72.34% |
| 5 | chr12:24237387-24237632 | - | 520 | 246 | 61 | 312 | 56.84% |
| 6 | chr4:13193299-13193441 | - | 510 | 143 | 171 | 316 | 88.11% |
| 7 | chr12:23715654-23715804 | - | 500 | 151 | 179 | 335 | 58.11% |
| 8 | chrX:109369872-109370017 | - | 490 | 146 | 146 | 292 | 84.72% |
| 9 | chr3:111484571-111484788 | - | 475 | 218 | 113 | 325 | 49.73% |
| 10 | chr5:108738462-108738612 | + | 455 | 151 | 164 | 318 | 62.96% |
| 11 | chr9:78883132-78883303 | + | 455 | 172 | 163 | 340 | 63.92% |
| 12 | chr13:79671668-79671841 | + | 450 | 174 | 165 | 334 | 66.07% |
| 13 | chr10:21399013-21399175 | - | 440 | 163 | 165 | 328 | 82.72% |
| 14 | chr12:20405792-20405989 | + | 440 | 198 | 45 | 250 | 76.26% |
| 15 | chr5:30708123-30708275 | - | 430 | 153 | 178 | 330 | 92.16% |
| 16 | chr2:77008763-77008906 | - | 430 | 144 | 164 | 312 | 56.03% |
| 17 | chr14:96271811-96271869 | + | 410 | 59 | 244 | 302 | 79.25% |
| 18 | chr13:21556434-21556578 | + | 395 | 145 | 190 | 335 | 58.41% |
| 19 | chr14:79103523-79103630 | + | 380 | 108 | 191 | 291 | 87.96% |
| 20 | chr2:164052431-164052501 | + | 380 | 71 | 231 | 301 | 76.06% |
| 21 | chr12:98207797-98207930 | - | 375 | 134 | 194 | 331 | ***% |
| 22 | chr6:121283970-121284063 | + | 375 | 94 | 245 | 340 | 66.28% |
| 23 | chr10:63192636-63192736 | + | 370 | 101 | 234 | 335 | 50.00% |
| 24 | chr15:93091443-93091579 | + | 370 | 137 | 196 | 338 | 60.31% |
| 25 | chr2:194021595-194021769 | + | 370 | 175 | 163 | 335 | ***% |
| 26 | chr13:43171305-43171392 | - | 365 | 88 | 47 | 135 | 58.23% |
| 27 | chr6:133838546-133838647 | - | 360 | 102 | 160 | 260 | 51.11% |
| 28 | chr2:144395388-144395484 | + | 360 | 97 | 189 | 288 | 89.69% |
| 29 | chr13:29878134-29878260 | - | 360 | 127 | 188 | 317 | 75.41% |

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|----|-------------------------------|---|-----|-----|-----|-----|--------|
| 30 | chr20:9273426-9273531 | + | 360 | 106 | 235 | 340 | 63.00% |
| 31 | chr21:28842606-28842729 | - | 355 | 124 | 190 | 314 | 62.62% |
| 32 | chr8:59978428-59978587 | + | 355 | 160 | 173 | 335 | 64.83% |
| 33 | chrX:153857105-153857231 | + | 350 | 127 | 193 | 330 | 62.75% |
| 34 | chr2:144417754-144417840 | - | 350 | 87 | 244 | 330 | 93.02% |
| 35 | chr18:18692304-18692396 | - | 350 | 93 | 247 | 339 | 72.83% |
| 36 | chr13:70958466-70958545 | - | 340 | 80 | 243 | 322 | 76.25% |
| 37 | chr3:191703000-191703068 | + | 340 | 69 | 230 | 297 | 75.36% |
| 38 | chr8:67365054-67365149 | + | 340 | 96 | 226 | 324 | 61.29% |
| 39 | chr4:56667519-56667613 | + | 335 | 95 | 245 | 337 | 62.50% |
| 40 | chr5:50794520-50794618 | - | 330 | 99 | 231 | 329 | 55.56% |
| 41 | chr14:97162353-97162441 | - | 330 | 89 | 248 | 337 | 61.90% |
| 42 | chr11:132510948- 132511036 | - | 330 | 89 | 250 | 340 | 62.82% |
| 43 | chr3:118016384-118016469 | - | 330 | 86 | 244 | 330 | 74.42% |
| 44 | chr2:144716642-144716739 | + | 325 | 98 | 190 | 292 | 77.42% |
| 45 | chr10:63184419-63184527 | + | 325 | 109 | 233 | 340 | 73.15% |
| 46 | chr2:200542286-200542371 | + | 320 | 86 | 233 | 318 | 91.86% |
| 47 | chr10:109056821- 109056987 | + | 320 | 167 | 140 | 326 | 78.44% |
| 48 | chr5:37759498-37759710 | + | 320 | 213 | 123 | 335 | 68.87% |
| 49 | chr6:81993547-81993648 | + | 320 | 102 | 235 | 334 | 79.59% |
| 50 | chr10:29097282-29097365 | + | 320 | 84 | 241 | 324 | 70.21% |
| 51 | chr3:29283947-29284081 | - | 315 | 135 | 164 | 297 | 69.47% |
| 52 | chr7:110751670-110751754 | + | 315 | 85 | 255 | 336 | 91.76% |
| 53 | chr18:51916026-51916200 | + | 315 | 175 | 164 | 340 | 93.14% |
| 54 | chr2:21726701-21726771 | - | 310 | 71 | 258 | 328 | 90.14% |
| 55 | chr4:29471605-29471713 | + | 310 | 109 | 230 | 337 | 58.82% |
| 56 | chr10:9010519-9010589 | + | 310 | 71 | 249 | 319 | 88.73% |
| 57 | chr10:63325965-63326107 | - | 310 | 143 | 165 | 302 | 59.02% |
| 58 | chr8:64621935-64622107 | + | 300 | 173 | 129 | 295 | 48.80% |
| 59 | chrX:38767596-38767705 | - | 300 | 110 | 194 | 317 | 97.25% |
| 60 | chr10:103347120- 103347209 | - | 300 | 90 | 248 | 338 | 85.56% |
| 61 | chr3:166532834-166532945 | + | 300 | 112 | 224 | 334 | 79.28% |

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|----|---------------------------|---|-----|-----|-----|-----|---------|
| 62 | chr6:156380831-156381022 | - | 300 | 192 | 148 | 327 | 85.86% |
| 63 | chr12:106197303-106197398 | + | 295 | 96 | 244 | 337 | 62.50% |
| 64 | chr4:131379226-131379301 | + | 295 | 76 | 257 | 334 | 57.38% |
| 65 | chr8:94209598-94209750 | - | 295 | 153 | 191 | 340 | 62.50% |
| 66 | chr1:118588323-118588429 | + | 295 | 107 | 220 | 328 | 70.59% |
| 67 | chr10:114532350-114532456 | + | 290 | 107 | 233 | 340 | 63.83% |
| 68 | chr4:124161677-124161725 | + | 290 | 49 | 44 | 92 | 60.47% |
| 69 | chr1:72858008-72858089 | + | 290 | 82 | 247 | 328 | 50.67% |
| 70 | chr2:221981243-221981370 | + | 290 | 128 | 193 | 325 | 65.79% |
| 71 | chr1:185353590-185353636 | + | 290 | 47 | 244 | 290 | 37.50% |
| 72 | chr15:55064210-55064372 | - | 290 | 163 | 166 | 330 | 63.09% |
| 73 | chr4:101079123-101079183 | - | 290 | 61 | 239 | 299 | 57.63% |
| 74 | chr7:83949875-83949945 | + | 290 | 71 | 45 | 115 | 79.10% |
| 75 | chr1:8817101-8817234 | + | 285 | 134 | 154 | 275 | 69.35% |
| 76 | chr1:46312860-46312940 | + | 285 | 81 | 202 | 285 | 80.25% |
| 77 | chr18:57062269-57062357 | + | 285 | 89 | 244 | 333 | 66.67% |
| 78 | chr6:120912611-120912718 | - | 285 | 108 | 211 | 327 | 49.06% |
| 79 | chr10:16580590-16580815 | - | 285 | 226 | 78 | 312 | 57.83% |
| 80 | chr15:59355460-59355619 | + | 285 | 160 | 166 | 333 | 81.76% |
| 81 | chr13:57096770-57096884 | - | 285 | 115 | 58 | 172 | 77.68% |
| 82 | chr2:212507111-212507309 | + | 285 | 199 | 126 | 324 | 61.73% |
| 83 | chr12:68234034-68234163 | + | 280 | 130 | 207 | 339 | ***% |
| 84 | chr1:213896164-213896366 | + | 280 | 203 | 87 | 285 | 48.60% |
| 85 | chr2:140392030-140392089 | + | 280 | 60 | 271 | 330 | 46.15% |
| 86 | chr20:21753359-21753438 | + | 280 | 80 | 250 | 330 | 45.59% |
| 87 | chr5:90643484-90643525 | + | 280 | 42 | 58 | 99 | 100.00% |
| 88 | chr3:33844107-33844202 | - | 280 | 96 | 65 | 160 | 58.95% |
| 89 | chr1:81720017-81720134 | + | 275 | 118 | 193 | 312 | 41.51% |
| 90 | chr12:30457971-30458033 | + | 275 | 63 | 276 | 339 | 49.15% |
| 91 | chr9:29581399-29581505 | + | 275 | 107 | 224 | 333 | 55.66% |
| 92 | chr3:169009783-169009870 | + | 275 | 88 | 249 | 339 | 76.19% |
| 93 | chr3:182491557-182491651 | + | 275 | 95 | 190 | 288 | 91.58% |
| 94 | chr11:30672367-30672428 | - | 270 | 62 | 194 | 260 | 91.94% |

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|-----|-------------------------------|---|-----|-----|-----|-----|--------|
| 95 | chr14:60955182-60955341 | + | 270 | 160 | 182 | 340 | 64.58% |
| 96 | chr14:97430225-97430357 | + | 270 | 133 | 201 | 339 | 55.37% |
| 97 | chr14:100643445- 100643503 | + | 270 | 59 | 192 | 247 | ***% |
| 98 | chr15:93429325-93429466 | - | 270 | 142 | 191 | 329 | 69.01% |
| 99 | chr17:55147993-55148071 | + | 270 | 79 | 230 | 310 | ***% |
| 100 | chr18:43384587-43384639 | - | 270 | 53 | 246 | 299 | 81.13% |
| 101 | chr5:126698451-126698535 | - | 270 | 85 | 248 | 330 | 90.59% |
| 102 | chr9:13609442-13609530 | + | 270 | 89 | 248 | 336 | 82.76% |
| 103 | chr12:13933622-13933658 | - | 270 | 37 | 262 | 298 | 67.57% |
| 104 | chr7:25625428-25625612 | + | 270 | 185 | 156 | 336 | 69.78% |
| 105 | chr3:115939741-115939804 | - | 270 | 64 | 262 | 324 | 64.06% |
| 106 | chr3:70515376-70515470 | + | 265 | 95 | 240 | 334 | 92.63% |
| 107 | chr15:30824980-30825141 | - | 260 | 162 | 156 | 333 | 82.61% |
| 108 | chr10:107041460- 107041551 | - | 260 | 92 | 235 | 326 | 82.61% |
| 109 | chr15:59012180-59012235 | + | 260 | 56 | 57 | 112 | 76.79% |
| 110 | chr13:71992968-71993064 | + | 260 | 97 | 233 | 340 | 86.32% |
| 111 | chr4:114161384-114161445 | - | 260 | 62 | 235 | 297 | ***% |
| 112 | chr8:141782061-141782096 | - | 260 | 36 | 277 | 312 | 51.61% |
| 113 | chr14:45173005-45173058 | + | 260 | 54 | 60 | 113 | 69.81% |
| 114 | chr4:112235966-112236019 | - | 260 | 54 | 274 | 327 | ***% |
| 115 | chr18:22728686-22728775 | - | 260 | 90 | 245 | 335 | 68.54% |
| 116 | chr2:181397884-181397951 | + | 260 | 68 | 247 | 315 | 73.85% |
| 117 | chr8:73876790-73876888 | + | 260 | 99 | 219 | 316 | 82.83% |
| 118 | chr2:193018810-193018910 | - | 260 | 101 | 191 | 299 | 38.78% |
| 119 | chr6:164051082-164051163 | + | 260 | 82 | 257 | 335 | 53.33% |
| 120 | chr10:53852978-53853062 | + | 260 | 85 | 252 | 339 | ***% |
| 121 | chr4:81494650-81494736 | + | 260 | 87 | 244 | 330 | 73.56% |
| 122 | chr3:147879145-147879236 | + | 260 | 92 | 242 | 335 | ***% |
| 123 | chr7:131921695-131921742 | - | 260 | 48 | 134 | 181 | 52.50% |
| 124 | chr3:115564795-115564836 | - | 260 | 42 | 185 | 226 | 77.50% |