

Table 1. Annotation of the Vrs1 sequence in table form.

| start | end | Name | strand | class | remark | nesting level |
|--------|--------|----------------|--------|--------------|-------------------------|---------------|
| 1 | 6877 | Jeli_1 | ref | gypsy | 5'fragment | |
| 7300 | 9723 | TAT_1 | for | CACTA | fragment | |
| 9724 | 16758 | Mandrake_1 | for | CACTA | ends truncated | 1 |
| 14025 | 15074 | e40m36-1110s_1 | rev | marker | marker | |
| 16759 | 19279 | BARE1_6.1 | rev | copia | fragment | |
| 19280 | 28591 | WHAM_1 | rev | athila | TSD | 1 |
| 28591 | 31840 | BARE1_6.2 | rev | copia | fragment | |
| 31841 | 39238 | Sabrina_16 | rev | athila | TSD | 1 |
| 39239 | 39400 | BARE1_6.3 | rev | copia | fragment | |
| 39401 | 47648 | Sabrina_17 | rev | athila | 5'fragment | 1 |
| 47649 | 48383 | Lara_1 | for | copia | fragment | |
| 49558 | 58162 | BARE1_1 | rev | copia | TSD | |
| 60322 | 61401 | Caspar_4 | for | CACTA | 3'end | |
| 61448 | 61773 | Eos_1 | for | MITE | fragment? | |
| 61811 | 62087 | RT_1 | rev | line | degenerated CDS | |
| 67946 | 68241 | Tourist_1 | for | MITE | fragment? | |
| 68358 | 73482 | Kasia_1 | for | copia | TSD | |
| 73646 | 74640 | Caspar_5 | for | CACTA | fragment | |
| 75364 | 83419 | Sabrina_1 | for | athila | TSD | |
| 85626 | 97359 | Balduin_2 | for | CACTA | TSD | |
| 98369 | 99550 | Sabrina_2 | for | athila | 5'fragment | |
| 102268 | 103761 | Sabrina_3 | for | athila | 5'fragment | |
| 105890 | 106802 | Lara_2.1 | rev | copia | 5'fragment | |
| 106803 | 109561 | Balduin_3.1 | for | CACTA | TSD | 1 |
| 109560 | 111109 | Sabrina_4 | for | athila | solo-LTR (TSD) | 2 |
| 111110 | 118482 | Balduin_3.2 | for | CACTA | TSD | 1 |
| 118483 | 119111 | Lara_2.2 | rev | copia | 5'fragment | |
| 123451 | 126712 | WHAM_2.1 | for | athila | TSD (mismatch) | |
| 126713 | 127584 | Sabrina_5.1 | for | athila | TSD | 1 |
| 127585 | 131605 | Laura_1 | for | gypsy | solo-LTR (TSD) | 2 |
| 131606 | 134830 | Sabrina_5.2 | for | athila | TSD | 1 |
| 134831 | 136657 | BARE1_2 | for | copia | solo-LTR (TSD mismatch) | 2 |
| 136658 | 139388 | Sabrina_5.3 | for | athila | TSD | 1 |
| 139389 | 142265 | WHAM_2.2 | for | athila | TSD (mismatch) | |
| 142266 | 143901 | Sabrina_6 | rev | athila | solo-LTR (TSD) | 1 |
| 143902 | 144394 | WHAM_2.3 | for | athila | TSD (mismatch) | |
| 144395 | 145991 | Sabrina_7 | rev | athila | fragment | 1 |
| 145992 | 148361 | WHAM_2.4 | for | athila | TSD (mismatch) | |
| 148542 | 150860 | Sabrina_23 | rev | athila | solo-LTR? | |
| 150861 | 152318 | Wilma_2.1 | rev | gypsy | 5'fragment | |
| 152318 | 158987 | Sabrina_18 | for | athila | 5'fragment | |
| 158988 | 159508 | Wilma_2.1 | rev | gypsy | 5'fragment | |
| 164249 | 164464 | HvHox_1.1 | rev | gene | exon 3 | |
| 164566 | 164902 | HvHox_1.2 | rev | gene | exon 2 | |
| 165024 | 165109 | HvHox_1.3 | rev | gene | exon 1 | |
| 167507 | 172708 | Caspar_1 | rev | CACTA | TSD | |
| 174262 | 179063 | Lara_2.1 | for | copia | 5'fragment | |
| 179064 | 187091 | Jeli_2 | for | gypsy | 3'fragment | 1 |
| 187092 | 187425 | Lara_2.2 | for | copia | 5'fragment | |
| 187485 | 188063 | Sabrina_22 | rev | athila | 3'fragment | |
| 188064 | 190303 | Mandrake_2.2 | rev | CACTA | 3'fragment | 1 |
| 190304 | 197755 | Sabrina_8 | for | athila | 5'fragment? | 2 |
| 197756 | 202123 | Sabrina_9 | for | athila | fragment? | 1 |
| 202124 | 209523 | Sukkula_1 | rev | gypsy | 5'fragment | 2 |
| 209524 | 210733 | Sabrina_10 | for | athila | TSD? | 1 |
| 210725 | 212637 | Mandrake_2.2 | rev | CACTA | 3'fragment | |
| 220228 | 222994 | Caspar_3 | rev | CACTA | 5'fragment | |
| 223049 | 224357 | Sabrina_11 | rev | athila | fragment? | |
| 224358 | 238605 | Maximus_1 | for | copia | TSD | |
| 238606 | 238797 | Sabrina_23 | rev | athila | 5'fragment | |
| 238798 | 239794 | Caspar_6 | for | CACTA | fragment | |
| 242019 | 242623 | Pingpong_1.1 | rev | unclassified | CDS | |
| 242624 | 244415 | Caspar_2 | rev | CACTA | TSD | 1 |
| 244416 | 244826 | Pingpong_1.2 | rev | unclassified | CDS | |
| 245480 | 247320 | RT_1 | for | copia | CDS fragment | |

| | | | | | | |
|--------|--------|--------------|-----|--------------|-------------------------|---|
| 257012 | 259013 | Wilma_1 | for | gypsy | 3'fragment | |
| 259476 | 264690 | WHAM_3 | rev | athila | 5'fragment | |
| 261900 | 262406 | 669N11-T7 | rev | marker | marker | |
| 264718 | 264930 | WHAM_4 | for | athila | fragment | |
| 265144 | 278092 | Maximus_2 | for | copla | TSD | |
| 279485 | 279894 | Sabrina_21.1 | for | athila | solo-LTR? | |
| 279895 | 288026 | Maximus_3.1 | for | copla | TSD | 1 |
| 288027 | 289847 | BARE1_3 | for | copla | solo-LTR (TSD mismatch) | 2 |
| 289848 | 293177 | Maximus_3.2 | for | copla | TSD | 1 |
| 293178 | 305230 | Haight_1 | for | gypsy | TSD | 2 |
| 305231 | 305951 | Maximus_3.3 | for | copla | TSD | 1 |
| 305952 | 311764 | Vincent_1 | rev | CACTA | TSD | 2 |
| 311765 | 313013 | Maximus_3.4 | for | copla | TSD | 1 |
| 313014 | 324804 | Vagabond_1 | for | copla | TSD | 2 |
| 324805 | 325409 | Maximus_3.5 | for | copla | TSD | 1 |
| 325409 | 334028 | BARE1_4 | for | copla | TSD | 2 |
| 334029 | 334435 | Maximus_3.6 | for | copla | TSD | 1 |
| 334436 | 335719 | Sabrina_21.2 | for | athila | solo-LTR? | |
| 336709 | 338173 | Sabrina_20.1 | rev | athila | 5'fragment | |
| 338174 | 352500 | Laura_2 | rev | gypsy | TSD | 1 |
| 352501 | 353573 | Sabrina_20.2 | rev | athila | 5'fragment | |
| 353938 | 353994 | Sabrina_15.1 | for | athila | fragment? | |
| 353994 | 361015 | Sabrina_13 | rev | athila | TSD | 1 |
| 361016 | 361852 | Sabrina_15.2 | for | athila | fragment? | |
| 361853 | 362989 | Sabrina_14 | for | athila | solo-LTR (TSD) | 1 |
| 362990 | 363752 | Sabrina_15.3 | for | athila | fragment? | |
| 363743 | 365159 | Maximus_3 | for | copla | solo-LTR (TSD) | |
| 367000 | 367450 | Sine_1 | for | SINE | putative | |
| 369543 | 378376 | BARE1_5 | rev | copla | hybrid? | |
| 379703 | 381878 | Bianca_1 | rev | copla | fragment | |
| 381879 | 382186 | BARE1_6 | rev | copla | 3'fragment | |
| 382193 | 382503 | Sabrina_12.1 | for | athila | TSD | |
| 382502 | 392101 | Balduin_1 | for | CACTA | TSD | 1 |
| 392102 | 399854 | Sabrina_12.2 | for | athila | TSD | |
| 400004 | 408986 | WHAM_5 | for | athila | 5'fragment | |
| 408987 | 417795 | Lolaog_1 | for | gypsy | 5'fragment | 1 |
| 418208 | 419253 | BARE1_7 | rev | copla | 5'fragment | 1 |
| 419254 | 423174 | Rita_1 | rev | copla | 5'fragment | |
| 425877 | 425954 | HvEP_1.1 | rev | gene | exon4 | |
| 426093 | 426175 | HvEP_1.2 | rev | gene | exon3 | |
| 428682 | 428859 | HvEP_1.3 | rev | gene | exon2 | |
| 429582 | 434664 | Ivana_1 | for | copla | TSD | |
| 437548 | 442862 | Ophelia | rev | copla | 3'fragment | |
| 443058 | 443219 | Damocles | rev | MITE | TSD | |
| 443833 | 450598 | Ikeros | for | copla | TSD? | |
| 450937 | 452501 | HvEP_1.4 | rev | gene | exon1 | |
| 454794 | 455383 | Xusuf_1 | rev | unclassified | fragment | |
| 459035 | 459119 | Athos | for | MITE | TSD | |
| 461650 | 462064 | 53F18-T7 | rev | marker | marker | |
| 466931 | 467015 | Athos | rev | MITE | TSD | |
| 469605 | 469700 | HvEP_2.1 | rev | gene | exon4 | |
| 469811 | 469853 | Atho\$ | rev | MITE | fragment | |
| 470207 | 470283 | HvEP_2.2 | rev | gene | exon2 | |
| 470981 | 471199 | HvEP_2.3 | rev | gene | exon3 | |
| 471969 | 472589 | HvEP_2.4 | rev | gene | exon1 | |
| 472156 | 472480 | BC12348 | rev | marker | marker | |
| 474298 | 476485 | BARE1_8.1 | rev | copla | 5'fragment | |
| 476485 | 479871 | Sukkula_2.1 | rev | gypsy | 5'fragment | 1 |
| 479872 | 487376 | Sabrina_19 | for | athila | TSD? | 2 |
| 487377 | 487980 | Sukkula_2.2 | rev | gypsy | 5'fragment | 1 |
| 487981 | 491990 | BARE1_8.2 | rev | copla | 5'fragment | |
| 491991 | 494683 | gypsy_1 | for | gypsy | fragment | |
| 494684 | 495151 | Sabrina_18.1 | for | athila | 5'fragment | |
| 495152 | 502164 | Sabrina_17 | for | athila | TSD | 1 |
| 502165 | 509254 | Sabrina_18.2 | for | athila | 5'fragment | |
| 510044 | 510105 | Jeli_3.1 | for | gypsy | 5'partial | |
| 510106 | 511857 | BARE1_9 | rev | copla | solo-LTR TSD | 1 |
| 511858 | 518343 | Jeli_3.2 | for | gypsy | 5'partial | |