

| Sample                      | Number of Input Reads | STAR     |          |          |               |        |        |            |        |       |          |          |          | STAR_WASP     |        |        |            |        |       |          |          |          |               |       |       | WASP       |         |         |  |  |  |  |  |  |  |  |  |
|-----------------------------|-----------------------|----------|----------|----------|---------------|--------|--------|------------|--------|-------|----------|----------|----------|---------------|--------|--------|------------|--------|-------|----------|----------|----------|---------------|-------|-------|------------|---------|---------|--|--|--|--|--|--|--|--|--|
|                             |                       | RAM      |          |          | Mapping Speed |        |        | Wall Clock |        |       | RAM      |          |          | Mapping Speed |        |        | Wall Clock |        |       | RAM      |          |          | Mapping Speed |       |       | Wall Clock |         |         |  |  |  |  |  |  |  |  |  |
|                             |                       | 8        | 16       | 32       | 8             | 16     | 32     | 8          | 16     | 32    | 8        | 16       | 32       | 8             | 16     | 32     | 8          | 16     | 32    | 8        | 16       | 32       | 8             | 16    | 32    | 8          | 16      | 32      |  |  |  |  |  |  |  |  |  |
| H00012                      | 66059710              | 31040844 | 32991424 | 36641712 | 69128         | 122578 | 165139 | 53331      | 32420  | 23720 | 3141536  | 33735640 | 38099780 | 63754         | 116605 | 174833 | 62438      | 34649  | 22637 | 11079724 | 33026000 | 36677224 | 24939         | 24939 | 24939 | 291831     | 263221  | 234931  |  |  |  |  |  |  |  |  |  |
| H00013                      | 8601093               | 31041089 | 32991372 | 36561962 | 30537         | 119130 | 128098 | 50841      | 16691  | 23610 | 3121740  | 33736088 | 38066016 | 62416         | 105350 | 166118 | 54942      | 320760 | 21921 | 11076208 | 33026092 | 3656616  | 23923         | 23923 | 23923 | 2717077    | 2459321 | 2157191 |  |  |  |  |  |  |  |  |  |
| H00071                      | 56254914              | 31041252 | 32991420 | 36523332 | 71039         | 106538 | 163320 | 43591      | 32014  | 21531 | 31435680 | 33740616 | 37952640 | 63039         | 116665 | 170182 | 53167      | 31405  | 21010 | 11080528 | 3301284  | 36564672 | 21763         | 22421 | 21763 | 254113     | 233418  | 2220205 |  |  |  |  |  |  |  |  |  |
| H00072                      | 30205482              | 31041012 | 32991356 | 36668240 | 64976         | 84035  | 153723 | 67705      | 51074  | 25418 | 31436484 | 33741100 | 38069202 | 60169         | 106608 | 166958 | 71051      | 41234  | 24247 | 11080808 | 3301170  | 36649204 | 36034         | 35725 | 35725 | 315748     | 291213  | 273635  |  |  |  |  |  |  |  |  |  |
| H00073                      | 92057912              | 31041244 | 32991334 | 36802844 | 63123         | 102943 | 119191 | 84033      | 53308  | 51062 | 3143356  | 33739964 | 38269664 | 63138         | 107559 | 170315 | 83769      | 51385  | 32069 | 11079840 | 3303644  | 3684256  | 31113         | 31113 | 31113 | 3412821    | 3175398 | 3638075 |  |  |  |  |  |  |  |  |  |
| NAT298_Nucleus_nodPolyA     | 110469991             | 30950208 | 32686848 | 36168820 | 48737         | 83199  | 90762  | 134835     | 81055  | 70152 | 3188040  | 33475928 | 37666488 | 41774         | 73240  | 115608 | 160955     | 91808  | 60084 | 1024508  | 32764968 | 3624508  | 40354         | 43226 | 45521 | 109332     | 130158  | 582389  |  |  |  |  |  |  |  |  |  |
| NAT298_Nucleus_nodPolyA_Rep | 106919251             | 30911332 | 32630792 | 36130148 | 41167         | 76675  | 121422 | 154722     | 83472  | 52947 | 3161524  | 33497288 | 37646644 | 46075         | 65884  | 106329 | 173626     | 103167 | 61701 | 1100528  | 32746132 | 3621672  | 34929         | 33315 | 36627 | 114113     | 14632   | 10206   |  |  |  |  |  |  |  |  |  |
| NAT298_Nucleus_PolyA        | 128402841             | 31041064 | 32991356 | 36892920 | 82738         | 71536  | 82841  | 183106     | 107924 | 93198 | 3197101  | 33739992 | 38294900 | 36003         | 65879  | 102596 | 111227     | 12181  | 73541 | 1111644  | 3309224  | 3697250  | 38569         | 36638 | 36883 | 13816      | 12672   | 17117   |  |  |  |  |  |  |  |  |  |
| NAT298_Nucleus_PolyA_Rep    | 116517502             | 31041204 | 32991604 | 36798048 | 45931         | 82248  | 126865 | 152630     | 84233  | 36357 | 31472056 | 33739892 | 38298636 | 38412         | 69333  | 111539 | 182835     | 102109 | 62181 | 11118584 | 33069692 | 36876884 | 40627         | 49112 | 52643 | 12622      | 11740   | 11310   |  |  |  |  |  |  |  |  |  |
| NAT298_PolyA                | 91548052              | 31041300 | 32991360 | 36852688 | 54238         | 54627  | 78915  | 111530     | 110225 | 73659 | 3147112  | 33741320 | 38398332 | 27117         | 86239  | 82824  | 112201     | 115430 | 11945 | 1111264  | 33019648 | 3697224  | 35239         | 34637 | 36018 | 12249      | 11308   | 10914   |  |  |  |  |  |  |  |  |  |
| NAT298_PolyA_Rep            | 91555384              | 31041328 | 32991172 | 36892596 | 36569         | 54943  | 83161  | 153302     | 102356 | 63790 | 31472848 | 33781068 | 38397668 | 27629         | 20923  | 83990  | 203386     | 111639 | 62791 | 1111428  | 33010396 | 3697682  | 30724         | 43030 | 55822 | 12125      | 11349   | 10945   |  |  |  |  |  |  |  |  |  |
| NAT298_Total                | 105408180             | 31040952 | 32991496 | 36892524 | 82118         | 58837  | 101673 | 151011     | 105665 | 62565 | 31472088 | 33780188 | 38396316 | 33128         | 59184  | 96157  | 191838     | 105183 | 64732 | 11116972 | 33069508 | 36974752 | 39966         | 42676 | 59045 | 12420      | 13611   | 11357   |  |  |  |  |  |  |  |  |  |
| NAT298_Total_Rep            | 91494052              | 31041356 | 32991408 | 36892564 | 58435         | 68940  | 97163  | 143386     | 84491  | 57436 | 31472188 | 33739912 | 38396332 | 33839         | 55133  | 90241  | 167895     | 101131 | 51011 | 11110928 | 33069584 | 36976824 | 38661         | 42538 | 56013 | 11441      | 13831   | 11038   |  |  |  |  |  |  |  |  |  |
| NAT928                      | 6349386               | 31041224 | 32991328 | 36585700 | 28921         | 121808 | 136224 | 53423      | 11835  | 25836 | 3146106  | 33751400 | 38054544 | 62271         | 108033 | 168042 | 62172      | 34491  | 22911 | 11096644 | 3304132  | 3660000  | 34066         | 45422 | 43021 | 310223     | 283910  | 27388   |  |  |  |  |  |  |  |  |  |
| NAT929                      | 72457349              | 31041084 | 32991472 | 36661112 | 68644         | 109539 | 164054 | 63012      | 40745  | 24930 | 31446252 | 33751120 | 38133220 | 62553         | 103923 | 107344 | 73855      | 42404  | 41436 | 11099580 | 33041304 | 3671572  | 32061         | 36243 | 34733 | 342517     | 313540  | 302139  |  |  |  |  |  |  |  |  |  |
| NAT928                      | 5911985               | 31040828 | 32991304 | 36544964 | 41973         | 112708 | 141185 | 55162      | 31820  | 24008 | 31446308 | 33752396 | 38033332 | 58130         | 93036  | 119101 | 61420      | 49122  | 51027 | 11096620 | 3304116  | 3659724  | 33691         | 33691 | 32167 | 283310     | 262210  | 248484  |  |  |  |  |  |  |  |  |  |