

| EdgeBetweenness | interaction | name              | Type of interactions | Code of Interactions | selected | shared interaction | shared name                              | stringdb::coexpression | stringdb::cooccurrence | stringdb::databases | stringdb::experiments | stringdb::fusion | stringdb::neighbourhood | stringdb::score | stringdb::text mining |
|-----------------|-------------|-------------------|----------------------|----------------------|----------|--------------------|------------------------------------------|------------------------|------------------------|---------------------|-----------------------|------------------|-------------------------|-----------------|-----------------------|
| 38.06747        | pp          | PDE2 (pp) TPK1    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.Q5AP71     | 0.126                  |                        | 0.594               | 0.248                 |                  |                         | 0.939           | 0.8                   |
| 9.464053        | pp          | PDE2 (pp) PDE1    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.Q5AGE4     | 0.093                  |                        | 0.9                 | 0.395                 |                  |                         | 0.996           | 0.947                 |
| 172.4019        | pp          | PDE2 (pp) RAS1    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.Q59XU5     | 0.044                  |                        | 0.123               | 0.251                 |                  |                         | 0.816           | 0.742                 |
| 4.333333        | pp          | PDE2 (pp) BCY1    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.Q9HEW1     | 0.082                  |                        |                     | 0.121                 |                  |                         | 0.907           | 0.894                 |
| 27.83443        | pp          | PDE2 (pp) CYR1    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.A0A1D8PR83 | 0.05                   |                        | 0.901               | 0.379                 |                  |                         | 0.991           | 0.878                 |
| 38.82689        | pp          | PDE2 (pp) TPK2    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PCV9 (pp) 237561.A0A1D8PHU1 | 0.087                  |                        | 0.594               | 0.248                 |                  |                         | 0.937           | 0.802                 |
| 2               | pp          | RIM13 (pp) RIM20  | Genetic              | 2                    | FALSE    | pp                 | 237561.Q5AK25 (pp) 237561.Q9UW12         | 0.044                  |                        |                     | 0.124                 |                  |                         | 0.97            | 0.967                 |
| 2               | pp          | RIM13 (pp) RIM8   | Genetic              | 2                    | FALSE    | pp                 | 237561.Q5AK25 (pp) 237561.Q9UW13         |                        |                        |                     | 0.116                 |                  |                         | 0.951           | 0.947                 |
| 270             | pp          | RIM13 (pp) RIM101 | Genetic              | 2                    | FALSE    | pp                 | 237561.Q5AK25 (pp) 237561.Q9UW14         | 0.051                  |                        | 0.079               | 0.507                 |                  |                         | 0.973           | 0.946                 |
| 75.92004        | pp          | MKC1 (pp) PKC1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q5AAG6 (pp) 237561.Q5ANK2         |                        | 0.128                  | 0.107               | 0.477                 |                  |                         | 0.833           | 0.639                 |
| 137.6952        | pp          | MKC1 (pp) TPK1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q5AAG6 (pp) 237561.Q5AP71         | 0.05                   | 0.213                  | 0.9                 | 0.175                 |                  |                         | 0.945           | 0.249                 |
| 93.4722         | pp          | MKC1 (pp) SCH9    | NA                   | 0                    | FALSE    | pp                 | 237561.Q5AAG6 (pp) 237561.Q5AHG6         |                        | 0.206                  | 0.922               | 0.143                 |                  |                         | 0.944           | 0.074                 |
| 4               | pp          | MSS4 (pp) STT4    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PJ31 (pp) 237561.A0A1D8PTE0 | 0.056                  |                        | 0.9                 | 0.149                 |                  |                         | 0.99            | 0.892                 |
| 276             | pp          | HSP12 (pp) HSP21  | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PNC7 (pp) 237561.Q5AHH4     | 0.092                  |                        |                     |                       |                  |                         | 0.728           | 0.713                 |
| 35.75674        | pp          | TOR1 (pp) TSC2    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.A0A1D8PMB6 | 0.066                  |                        | 0.597               | 0.379                 |                  |                         | 0.898           | 0.617                 |
| 64.76521        | pp          | TOR1 (pp) BMH1    | Genetic              | 2                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.O42766     |                        |                        | 0.617               | 0.162                 |                  |                         | 0.812           | 0.462                 |
| 80.96968        | pp          | TOR1 (pp) TPK1    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.Q5AP71     |                        |                        |                     | 0.092                 |                  |                         | 0.722           | 0.707                 |
| 34.83561        | pp          | TOR1 (pp) RHB1    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.Q5ANA9     | 0.046                  |                        | 0.624               | 0.829                 |                  |                         | 0.991           | 0.871                 |
| 168.8331        | pp          | TOR1 (pp) RAS1    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.Q59XU5     |                        |                        | 0.335               | 0.378                 |                  |                         | 0.776           | 0.502                 |
| 108.7018        | pp          | TOR1 (pp) HSP90   | Physical, Genetic    | 1                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.P46598     | 0.073                  |                        | 0.29                | 0.557                 |                  |                         | 0.83            | 0.489                 |
| 88.53574        | pp          | TOR1 (pp) UME6    | NA                   | 0                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.Q59MD2     |                        |                        | 0.922               | 0.047                 |                  |                         | 0.952           | 0.406                 |
| 45.15105        | pp          | TOR1 (pp) SCH9    | Physical, Genetic    | 1                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.Q5AHG6     |                        |                        | 0.946               | 0.687                 |                  |                         | 0.997           | 0.868                 |
| 159.0642        | pp          | TOR1 (pp) GTR1    | Physical, Genetic    | 1                    | FALSE    | pp                 | 237561.A0A1D8PHX3 (pp) 237561.A0A1D8PI64 | 0.046                  |                        | 0.624               | 0.955                 |                  |                         | 0.998           | 0.917                 |
| 14.10465        | pp          | FLO8 (pp) NDT80   | NA                   | 0                    | FALSE    | pp                 | 237561.Q59QW5 (pp) 237561.Q5ACU9         | 0.226                  |                        |                     |                       |                  |                         | 0.751           | 0.692                 |
| 118.3866        | pp          | FLO8 (pp) EFG1    | Physical             | 1                    | FALSE    | pp                 | 237561.Q59QW5 (pp) 237561.Q59X67         | 0.092                  |                        | 0.098               | 0.531                 |                  |                         | 0.962           | 0.913                 |
| 25.4003         | pp          | FLO8 (pp) BCR1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q59QW5 (pp) 237561.Q59U10         | 0.1                    |                        | 0.098               | 0.145                 |                  |                         | 0.747           | 0.679                 |
| 120.7935        | pp          | FLO8 (pp) TEC1    | Physical, Genetic    | 1                    | FALSE    | pp                 | 237561.Q59QW5 (pp) 237561.Q5ANJ4         | 0.044                  |                        |                     |                       |                  |                         | 0.837           | 0.837                 |
| 37.24846        | pp          | FLO8 (pp) CZF1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q59QW5 (pp) 237561.Q5A0W9         |                        |                        | 0.11                | 0.153                 |                  |                         | 0.736           | 0.678                 |
| 56.59922        | pp          | RAS1 (pp) TPK1    | Genetic              | 2                    | FALSE    | pp                 | 237561.Q59XU5 (pp) 237561.Q5AP71         | 0.049                  |                        | 0.905               | 0.199                 |                  |                         | 0.99            | 0.885                 |
| 91.30456        | pp          | RAS1 (pp) HGC1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q59XU5 (pp) 237561.Q5ABE2         | 0.044                  |                        |                     | 0.153                 |                  |                         | 0.715           | 0.677                 |
| 444.7251        | pp          | RAS1 (pp) PKC1    | NA                   | 0                    | FALSE    | pp                 | 237561.Q59XU5 (pp) 237561.Q5ANK2         | 0.055                  |                        | 0.53                | 0.272                 |                  |                         | 0.788           | 0.423                 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |  |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|--|--|-------|-------|
| 277.9433 | pp | RAS1 (pp)<br>RGA2   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q5AMQ3            |       |       | 0.59  | 0.759 |  |  | 0.941 | 0.457 |
| 414.0228 | pp | RAS1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q9UW14            |       |       | 0.115 | 0.122 |  |  | 0.709 | 0.656 |
| 163.3554 | pp | RAS1 (pp)<br>BCY1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q9HEW1            |       |       | 0.177 | 0.271 |  |  | 0.812 | 0.712 |
| 131.9861 | pp | RAS1 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q5A6T5            |       |       | 0.268 | 0.272 |  |  | 0.855 | 0.751 |
| 202.128  | pp | RAS1 (pp)<br>SCH9   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59XU5 (pp)<br>237561.Q5AHG6         | 0.045 |       | 0.149 | 0.795 |  |  | 0.896 | 0.454 |
| 245.4946 | pp | RAS1 (pp)<br>HOG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q92207            |       |       | 0.206 | 0.146 |  |  | 0.744 | 0.653 |
| 217.7772 | pp | RAS1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp)<br>237561.Q5ANJ4         | 0.043 |       |       | 0.16  |  |  | 0.825 | 0.8   |
| 123.0624 | pp | RAS1 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q5A0E5            |       |       | 0.115 | 0.15  |  |  | 0.734 | 0.675 |
| 141.3903 | pp | RAS1 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59XU5 (pp) 237561.Q5A1D3            |       |       | 0.206 | 0.146 |  |  | 0.784 | 0.708 |
| 75.00297 | pp | PBS2 (pp)<br>HOG1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.Q92207     | 0.044 | 0.2   | 0.923 | 0.912 |  |  | 0.998 | 0.676 |
| 24.20548 | pp | PBS2 (pp)<br>PTP3   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.A0A1D8PU75 | 0.058 |       | 0.118 | 0.167 |  |  | 0.776 | 0.715 |
| 95.07991 | pp | PBS2 (pp)<br>SSK2   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.A0A1D8PM87 | 0.05  | 0.142 | 0.9   | 0.8   |  |  | 0.993 | 0.649 |
| 190.8937 | pp | PBS2 (pp)<br>MID1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.A0A1D8PNU4 | 0.044 |       | 0.263 | 0.717 |  |  | 0.807 | 0.15  |
| 28.67505 | pp | PBS2 (pp)<br>SSK1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q5AKU6        |       |       |       | 0.199 |  |  | 0.948 | 0.938 |
| 30.10674 | pp | PBS2 (pp)<br>SHO1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q5AQ36        |       |       | 0.9   | 0.896 |  |  | 0.999 | 0.965 |
| 63.39285 | pp | PBS2 (pp)<br>BCK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.A0A1D8PR87 | 0.066 | 0.222 | 0.121 | 0.459 |  |  | 0.765 | 0.426 |
| 29.18595 | pp | PBS2 (pp)<br>OPY2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.Q5A753     | 0.046 |       |       |       |  |  | 0.727 | 0.726 |
| 52.96144 | pp | PBS2 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q59VR1        |       |       |       | 0.127 |  |  | 0.729 | 0.703 |
| 25.01898 | pp | PBS2 (pp)<br>YPD1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q59WC6        |       |       |       | 0.301 |  |  | 0.935 | 0.911 |
| 76.61247 | pp | PBS2 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.Q5A1D3     | 0.044 | 0.18  | 0.263 | 0.377 |  |  | 0.717 | 0.335 |
| 28.67505 | pp | PBS2 (pp)<br>SLN1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q5A872        |       |       |       | 0.122 |  |  | 0.913 | 0.905 |
| 17.71553 | pp | PBS2 (pp)<br>PTP2   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.A0A1D8PLX9    |       |       | 0.118 | 0.167 |  |  | 0.748 | 0.685 |
| 127.5005 | pp | PBS2 (pp)<br>CDC42  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.P0CY33     | 0.043 |       | 0.125 | 0.184 |  |  | 0.856 | 0.814 |
| 42.48987 | pp | PBS2 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp) 237561.Q5A6T5        |       | 0.191 | 0.536 | 0.235 |  |  | 0.768 | 0.289 |
| 105.9197 | pp | PBS2 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PKE2 (pp)<br>237561.Q5AAG6     | 0.044 | 0.199 | 0.263 | 0.377 |  |  | 0.722 | 0.332 |
| 106.5157 | pp | MKK2 (pp)<br>HOG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHG7 (pp)<br>237561.Q92207     | 0.054 | 0.185 | 0.263 | 0.379 |  |  | 0.735 | 0.366 |
| 42.32876 | pp | MKK2 (pp)<br>RHO1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHG7 (pp)<br>237561.O42825     | 0.05  |       | 0.125 | 0.184 |  |  | 0.863 | 0.823 |
| 55.18222 | pp | MKK2 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHG7 (pp)<br>237561.Q5AAG6     | 0.044 | 0.225 | 0.923 | 0.803 |  |  | 0.992 | 0.45  |
| 19.17881 | pp | MKK2 (pp)<br>BCK1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PHG7 (pp)<br>237561.A0A1D8PR87 | 0.066 | 0.224 | 0.908 | 0.807 |  |  | 0.996 | 0.787 |
| 6        | pp | CCC1 (pp)<br>SMF3   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59SS1 (pp) 237561.Q5ACZ8            |       |       |       |       |  |  | 0.867 | 0.867 |
| 6        | pp | CCC1 (pp)<br>MRS4   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59SS1 (pp)<br>237561.Q5A2T7         | 0.049 |       |       | 0.196 |  |  | 0.892 | 0.871 |
| 49.53599 | pp | SWI4 (pp)<br>RLM1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp) 237561.A0A1D8PL95    |       |       |       | 0.198 |  |  | 0.885 | 0.863 |

|          |    |                      |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|----------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 62.69351 | pp | SWI4 (pp)<br>MKC1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp) 237561.Q5AAG6        |       |       | 0.9   | 0.388 |       |  | 0.96  | 0.396 |
| 47.18255 | pp | SWI4 (pp)<br>CLB2    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.Q5ALY0     | 0.046 |       | 0.119 | 0.688 |       |  | 0.781 | 0.266 |
| 52.71446 | pp | SWI4 (pp)<br>MCM1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.Q5AFP3     | 0.094 |       |       | 0.154 |       |  | 0.715 | 0.659 |
| 57.37686 | pp | SWI4 (pp)<br>CDC28   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.P43063     | 0.042 |       | 0.909 | 0.259 |       |  | 0.971 | 0.61  |
| 7.333712 | pp | SWI4 (pp)<br>SWI6    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.A0A1D8PED2 | 0.095 | 0.208 | 0.8   | 0.956 |       |  | 0.999 | 0.929 |
| 112.4975 | pp | SWI4 (pp)<br>HGC1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.Q5ABE2     | 0.043 |       | 0.119 | 0.795 |       |  | 0.858 | 0.279 |
| 55.64702 | pp | SWI4 (pp)<br>PKC1    | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp) 237561.Q5ANK2        |       |       |       | 0.494 |       |  | 0.848 | 0.712 |
| 41.01562 | pp | SWI4 (pp)<br>BCK1    | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PCM9 (pp)<br>237561.A0A1D8PR87 | 0.099 |       |       | 0.224 |       |  | 0.791 | 0.726 |
| 58.62387 | pp | SSK2 (pp)<br>SHO1    | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PM87 (pp) 237561.Q5AQ36        |       |       |       | 0.127 |       |  | 0.91  | 0.902 |
| 24.32926 | pp | SSK2 (pp)<br>YPD1    | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PM87 (pp) 237561.Q59WC6        |       |       |       | 0.172 |       |  | 0.917 | 0.905 |
| 23.78958 | pp | SSK2 (pp)<br>SLN1    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PM87 (pp) 237561.Q5A872        |       |       |       | 0.251 |       |  | 0.928 | 0.908 |
| 23.78958 | pp | SSK2 (pp)<br>SSK1    | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PM87 (pp)<br>237561.Q5AKU6     | 0.044 |       | 0.9   | 0.821 |       |  | 0.998 | 0.943 |
| 57.83612 | pp | CDC28 (pp)<br>CLB2   | Physical             | 1 | FAL<br>SE | pp | 237561.P43063 (pp)<br>237561.Q5ALY0         | 0.501 |       | 0.902 | 0.772 | 0.016 |  | 0.999 | 0.922 |
| 131.6196 | pp | CDC28 (pp)<br>HGC1   | Physical             | 1 | FAL<br>SE | pp | 237561.P43063 (pp) 237561.Q5ABE2            | 0.38  |       | 0.263 | 0.918 |       |  | 0.999 | 0.984 |
| 196.5482 | pp | CDC28 (pp)<br>HSP90  | Physical             | 1 | FAL<br>SE | pp | 237561.P43063 (pp) 237561.P46598            | 0.052 |       | 0.056 | 0.448 |       |  | 0.798 | 0.641 |
| 55.51641 | pp | CDC28 (pp)<br>SWE1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P43063 (pp) 237561.Q5AP97            | 0.112 | 0.224 | 0.957 | 0.794 |       |  | 0.996 | 0.505 |
| 69.42856 | pp | CDC28 (pp)<br>RGA2   | Physical             | 1 | FAL<br>SE | pp | 237561.P43063 (pp)<br>237561.Q5AMQ3         | 0.046 |       | 0.087 | 0.35  |       |  | 0.793 | 0.679 |
| 125.2586 | pp | CDC28 (pp)<br>CLB4   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P43063 (pp) 237561.Q5A0A9            | 0.516 |       | 0.528 | 0.691 |       |  | 0.98  | 0.75  |
| 177.1372 | pp | CDC28 (pp)<br>FKH2   | Physical             | 1 | FAL<br>SE | pp | 237561.P43063 (pp) 237561.Q5A7S7            | 0.044 |       | 0.125 | 0.396 |       |  | 0.786 | 0.628 |
| 55.55318 | pp | RFG1 (pp)<br>TEC1    | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A220 (pp)<br>237561.Q5ANJ4         | 0.073 |       | 0.072 | 0.104 |       |  | 0.74  | 0.703 |
| 24.78034 | pp | RFG1 (pp)<br>SSN6    | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A220 (pp)<br>237561.Q5ADP3         | 0.053 |       |       | 0.073 |       |  | 0.741 | 0.729 |
| 41.66358 | pp | BNI1 (pp)<br>RGA2    | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AL52 (pp)<br>237561.Q5AMQ3         | 0.124 |       | 0.625 | 0.18  |       |  | 0.92  | 0.741 |
| 19.17143 | pp | CDC24 (pp)<br>CDC42  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp)<br>237561.P0CY33     | 0.044 |       | 0.923 | 0.858 |       |  | 0.999 | 0.96  |
| 28.66504 | pp | CDC24 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp) 237561.Q5A6T5        |       |       |       | 0.065 |       |  | 0.738 | 0.731 |
| 42.81122 | pp | CDC24 (pp)<br>SHO1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp) 237561.Q5AQ36        |       |       | 0.9   | 0.194 |       |  | 0.956 | 0.506 |
| 26.66757 | pp | CDC24 (pp)<br>RGA2   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp) 237561.Q5AMQ3        |       |       |       | 0.991 |       |  | 0.998 | 0.844 |
| 33.04028 | pp | CDC24 (pp)<br>FAR1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp) 237561.A0A1D8PQH4    |       |       | 0.912 | 0.644 |       |  | 0.993 | 0.8   |
| 71.94708 | pp | CDC24 (pp)<br>RHO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp)<br>237561.O42825     | 0.044 |       | 0.263 | 0.377 |       |  | 0.784 | 0.567 |
| 172.2569 | pp | CDC24 (pp)<br>RAS1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp) 237561.Q59XU5        |       |       | 0.194 | 0.675 |       |  | 0.929 | 0.753 |
| 23.57943 | pp | CDC24 (pp)<br>CST20  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp)<br>237561.P0CY24     | 0.055 |       |       | 0.252 |       |  | 0.93  | 0.91  |
| 19.32062 | pp | CDC24 (pp)<br>BNI1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PNB5 (pp)<br>237561.Q5AL52     | 0.044 |       |       | 0.195 |       |  | 0.746 | 0.697 |
| 12.04848 | pp | MFALPHA<br>(pp) STE3 | NA                   | 0 | FAL<br>SE | pp | 237561.Q59QG8 (pp) 237561.Q5A9Z4            |       |       |       |       |       |  | 0.861 | 0.861 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |  |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|--|--|-------|-------|
| 26.94787 | pp | FAR1 (pp)<br>CEK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.A0A1D8PT38 | 0.543 |       | 0.912 | 0.622 |  |  | 0.993 | 0.604 |
| 69.99475 | pp | FAR1 (pp)<br>STE2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.A0A1D8PTB4 | 0.143 |       |       | 0.087 |  |  | 0.808 | 0.775 |
| 32.69731 | pp | FAR1 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.Q5A6T5     | 0.044 |       | 0.159 | 0.248 |  |  | 0.737 | 0.617 |
| 64.99922 | pp | FAR1 (pp)<br>CDC42  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.P0CY33     | 0.075 |       | 0.226 | 0.183 |  |  | 0.765 | 0.647 |
| 126.4543 | pp | FAR1 (pp)<br>CDC28  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.P43063     | 0.044 |       | 0.909 | 0.378 |  |  | 0.956 | 0.284 |
| 54.59232 | pp | FAR1 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.Q5A1D3     | 0.115 |       | 0.912 | 0.622 |  |  | 0.98  | 0.404 |
| 21.5886  | pp | FAR1 (pp)<br>STE18  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQH4 (pp)<br>237561.A0A1D8PQX7 | 0.306 |       | 0.9   | 0.105 |  |  | 0.986 | 0.807 |
| 276      | pp | ACE2 (pp)<br>BCR1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RR0 (pp)<br>237561.Q59U10         | 0.046 |       |       |       |  |  | 0.771 | 0.77  |
| 75.20398 | pp | TEC1 (pp)<br>TPK1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5ANJ4 (pp) 237561.Q5AP71            |       |       |       | 0.067 |  |  | 0.701 | 0.693 |
| 212.4901 | pp | TEC1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q5ANJ4 (pp)<br>237561.Q9UW14         | 0.046 |       |       | 0.152 |  |  | 0.775 | 0.745 |
| 30.07444 | pp | CZF1 (pp)<br>RFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0W9 (pp) 237561.Q5A220            |       |       |       | 0.071 |  |  | 0.7   | 0.691 |
| 8.485714 | pp | CZF1 (pp)<br>WOR1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0W9 (pp)<br>237561.Q5AP80         | 0.217 |       |       |       |  |  | 0.888 | 0.864 |
| 186.4615 | pp | CZF1 (pp)<br>WOR3   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0W9 (pp)<br>237561.Q5A6T8         | 0.046 |       |       |       |  |  | 0.838 | 0.838 |
| 3.138889 | pp | YPD1 (pp)<br>SSK1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q59WC6 (pp)<br>237561.Q5AKU6         | 0.046 |       | 0.9   | 0.986 |  |  | 0.999 | 0.97  |
| 108.773  | pp | YPD1 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q59WC6 (pp) 237561.Q92207            |       |       |       | 0.247 |  |  | 0.939 | 0.923 |
| 10.92248 | pp | YPD1 (pp)<br>SHO1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59WC6 (pp) 237561.Q5AQ36            |       |       |       |       |  |  | 0.895 | 0.896 |
| 3.138889 | pp | YPD1 (pp)<br>SLN1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q59WC6 (pp)<br>237561.Q5A872         | 0.046 |       | 0.9   | 0.921 |  |  | 0.999 | 0.969 |
| 2        | pp | GPD2 (pp)<br>GPD1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59W33 (pp)<br>237561.Q59XU9         | 0.138 | 0.058 | 0.9   |       |  |  | 0.912 | 0.054 |
| 119.8892 | pp | SKO1 (pp)<br>CAP1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59VR1 (pp) 237561.Q5AJU7            |       |       |       | 0.392 |  |  | 0.707 | 0.538 |
| 120.9544 | pp | SKO1 (pp)<br>SSN6   | Physical             | 1 | FAL<br>SE | pp | 237561.Q59VR1 (pp) 237561.Q5ADP3            |       |       | 0.904 | 0.163 |  |  | 0.961 | 0.562 |
| 101.2204 | pp | SKO1 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59VR1 (pp) 237561.Q5A1D3            |       |       | 0.296 | 0.567 |  |  | 0.787 | 0.359 |
| 99.08206 | pp | SKO1 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59VR1 (pp) 237561.Q5AAG6            |       |       | 0.296 | 0.567 |  |  | 0.859 | 0.575 |
| 90.07209 | pp | SKO1 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q59VR1 (pp) 237561.Q92207            |       |       | 0.927 | 0.846 |  |  | 0.999 | 0.935 |
| 169.5641 | pp | MNL1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RR3 (pp) 237561.Q59XU5            |       |       | 0.115 | 0.688 |  |  | 0.767 | 0.225 |
| 43.33709 | pp | MNL1 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RR3 (pp) 237561.Q59VR1            |       |       | 0.104 | 0.119 |  |  | 0.805 | 0.773 |
| 30.51505 | pp | MNL1 (pp)<br>SCH9   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RR3 (pp) 237561.Q5AHG6            |       |       | 0.114 | 0.795 |  |  | 0.929 | 0.642 |
| 87.10632 | pp | MNL1 (pp)<br>HOG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RR3 (pp) 237561.Q92207            |       |       | 0.116 | 0.15  |  |  | 0.76  | 0.707 |
| 186.7471 | pp | CNB1 (pp)<br>CRZ1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PP58 (pp) 237561.Q5A4H5        |       |       | 0.12  | 0.191 |  |  | 0.934 | 0.916 |
| 3        | pp | CNB1 (pp)<br>CCH1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PP58 (pp) 237561.Q5A936        |       |       |       | 0.393 |  |  | 0.889 | 0.825 |
| 71.69383 | pp | PTP3 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PU75 (pp) 237561.Q5AAG6        |       |       | 0.923 | 0.261 |  |  | 0.953 | 0.248 |
| 78.16029 | pp | PTP3 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PU75 (pp) 237561.Q5A1D3        |       |       | 0.923 | 0.261 |  |  | 0.943 | 0.097 |
| 84.74447 | pp | PTP3 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PU75 (pp) 237561.Q92207        |       |       | 0.923 | 0.594 |  |  | 0.992 | 0.769 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 276      | pp | PHR1 (pp)<br>CRH11  | NA                   | 0 | FAL<br>SE | pp | 237561.P43076 (pp) 237561.Q5AFA2            | 0.375 |       |       |       |       |  | 0.746 | 0.611 |
| 48.26011 | pp | PHR1 (pp)<br>RBT1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43076 (pp) 237561.Q59TP1            | 0.37  |       |       |       |       |  | 0.731 | 0.591 |
| 257.4206 | pp | PHR1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.P43076 (pp)<br>237561.Q9UW14         | 0.101 |       |       | 0.074 |       |  | 0.702 | 0.671 |
| 259.4557 | pp | PHR1 (pp)<br>HWP1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43076 (pp) 237561.P46593            | 0.267 |       |       | 0.066 |       |  | 0.754 | 0.67  |
| 8        | pp | HAP43 (pp)<br>SEF1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PF19 (pp)<br>237561.Q59UY7     | 0.233 |       |       | 0.116 |       |  | 0.901 | 0.867 |
| 12       | pp | HAP43 (pp)<br>CCC1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PF19 (pp) 237561.Q59SS1        |       |       |       | 0.077 |       |  | 0.741 | 0.731 |
| 82.77093 | pp | NDT80 (pp)<br>TEC1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5ACU9 (pp) 237561.Q5ANJ4            |       |       |       |       |       |  | 0.867 | 0.867 |
| 3.504274 | pp | SSA2 (pp)<br>MSI3   | Physical             | 1 | FAL<br>SE | pp | 237561.P46587 (pp) 237561.Q96VB9            | 0.328 | 0.175 | 0.281 | 0.424 |       |  | 0.815 | 0.32  |
| 41.63474 | pp | SSA2 (pp)<br>CTA8   | NA                   | 0 | FAL<br>SE | pp | 237561.P46587 (pp) 237561.Q5AQ33            | 0.046 |       | 0.449 | 0.418 |       |  | 0.806 | 0.441 |
| 219.0041 | pp | SSA2 (pp)<br>HSP90  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P46587 (pp) 237561.P46598            | 0.456 |       | 0.261 | 0.383 | 0.004 |  | 0.897 | 0.635 |
| 79.17559 | pp | CPH1 (pp)<br>EFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59X67            |       |       |       | 0.122 |       |  | 0.902 | 0.894 |
| 131.8136 | pp | CPH1 (pp)<br>CPH2   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59RL7            |       |       | 0.064 | 0.119 |       |  | 0.712 | 0.679 |
| 190.8423 | pp | CPH1 (pp)<br>BCR1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59U10            | 0.046 |       |       |       |       |  | 0.714 | 0.713 |
| 173.2462 | pp | CPH1 (pp)<br>ALS3   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59L12            | 0.049 |       | 0.089 | 0.144 |       |  | 0.861 | 0.835 |
| 277.7576 | pp | CPH1 (pp)<br>FLO8   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59QW5            |       |       | 0.098 | 0.145 |       |  | 0.724 | 0.671 |
| 111.0831 | pp | CPH1 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5ABE2            | 0.165 |       |       | 0.123 |       |  | 0.758 | 0.697 |
| 82.18416 | pp | CPH1 (pp)<br>TPK1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5AP71            | 0.045 |       | 0.124 | 0.151 |       |  | 0.701 | 0.63  |
| 129.6461 | pp | CPH1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q59XU5            |       |       | 0.115 | 0.2   |       |  | 0.873 | 0.835 |
| 142.7235 | pp | CPH1 (pp)<br>HWP1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.P46593            | 0.157 |       | 0.089 | 0.144 |       |  | 0.879 | 0.839 |
| 128.145  | pp | CPH1 (pp)<br>RFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5A220            |       |       | 0.086 | 0.181 |       |  | 0.759 | 0.705 |
| 303.2843 | pp | CPH1 (pp)<br>HOG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q92207            |       |       | 0.116 | 0.15  |       |  | 0.73  | 0.67  |
| 82.56548 | pp | CPH1 (pp)<br>CEK1   | Physical             | 1 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5A1D3            | 0.325 |       | 0.908 | 0.763 |       |  | 0.998 | 0.884 |
| 179.7511 | pp | CPH1 (pp)<br>MCM1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5AFP3            |       |       | 0.902 | 0.186 |       |  | 0.956 | 0.495 |
| 60.74592 | pp | CPH1 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5A0E5            |       |       |       |       |       |  | 0.837 | 0.838 |
| 64.89915 | pp | CPH1 (pp)<br>UME6   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp)<br>237561.Q59MD2         | 0.082 |       | 0.093 | 0.077 |       |  | 0.734 | 0.695 |
| 45.63364 | pp | CPH1 (pp)<br>TEC1   | Physical             | 1 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5ANJ4            |       |       | 0.9   | 0.171 |       |  | 0.988 | 0.87  |
| 91.42365 | pp | CPH1 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.P43079 (pp) 237561.Q5A6T5            |       |       | 0.113 | 0.191 |       |  | 0.926 | 0.906 |
| 31.17692 | pp | STE18 (pp)<br>STE2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQX7 (pp)<br>237561.A0A1D8PTB4 | 0.213 |       |       | 0.42  |       |  | 0.972 | 0.946 |
| 51.58922 | pp | STE18 (pp)<br>CST20 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQX7 (pp) 237561.P0CY24        |       |       | 0.9   |       |       |  | 0.97  | 0.713 |
| 70.22857 | pp | STE18 (pp)<br>HST7  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQX7 (pp) 237561.Q5A6T5        |       |       |       |       |       |  | 0.848 | 0.848 |
| 19.48448 | pp | STE18 (pp)<br>CLA4  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQX7 (pp) 237561.Q5APR8        |       |       | 0.9   |       |       |  | 0.914 | 0.182 |
| 73.43236 | pp | MSN4 (pp)<br>TPK1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PEH3 (pp)<br>237561.Q5AP71     | 0.045 |       | 0.909 | 0.151 |       |  | 0.957 | 0.499 |

|          |    |                    |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|--------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 56.69192 | pp | MSN4 (pp)<br>MCM1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PEH3 (pp) 237561.Q5AFP3        |       |       | 0.902 | 0.148 |       |  | 0.929 | 0.222 |
| 119.6813 | pp | MSN4 (pp)<br>HOG1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PEH3 (pp) 237561.Q92207        |       |       | 0.908 | 0.15  |       |  | 0.965 | 0.593 |
| 57.98011 | pp | MSN4 (pp)<br>SKO1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PEH3 (pp) 237561.Q59VR1        |       |       | 0.104 | 0.119 |       |  | 0.759 | 0.72  |
| 68.71048 | pp | MSN4 (pp)<br>TPK2  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PEH3 (pp)<br>237561.A0A1D8PHU1 | 0.148 |       | 0.909 | 0.151 |       |  | 0.963 | 0.515 |
| 2.666667 | pp | ICL1 (pp)<br>MLS1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59RB8 (pp)<br>237561.Q5APD2         | 0.872 | 0.31  | 0.9   |       | 0.899 |  | 0.999 | 0.951 |
| 85.14092 | pp | WSC1 (pp)<br>RLM1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJZ5 (pp) 237561.A0A1D8PL95    |       |       |       |       |       |  | 0.704 | 0.704 |
| 5.94741  | pp | WSC1 (pp)<br>WSC2  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJZ5 (pp)<br>237561.A0A1D8PPZ4 | 0.091 |       | 0.9   |       |       |  | 0.932 | 0.318 |
| 39.88635 | pp | WSC1 (pp)<br>BCK1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJZ5 (pp) 237561.A0A1D8PR87    |       |       |       | 0.117 |       |  | 0.883 | 0.874 |
| 118.6532 | pp | WSC1 (pp)<br>PKC1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJZ5 (pp) 237561.Q5ANK2        |       |       |       | 0.186 |       |  | 0.895 | 0.877 |
| 34.26694 | pp | WSC1 (pp)<br>RHO1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJZ5 (pp) 237561.O42825        |       |       | 0.046 | 0.118 |       |  | 0.9   | 0.891 |
| 59.08688 | pp | RGA2 (pp)<br>CLA4  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AMQ3 (pp) 237561.Q5APR8            |       |       | 0.971 | 0.803 |       |  | 0.997 | 0.675 |
| 116.2548 | pp | RGA2 (pp)<br>RHB1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AMQ3 (pp) 237561.Q5ANA9            |       |       | 0.59  | 0.759 |       |  | 0.938 | 0.425 |
| 110.9918 | pp | RGA2 (pp)<br>SWE1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AMQ3 (pp) 237561.Q5AP97            |       |       |       | 0.198 |       |  | 0.715 | 0.659 |
| 101.4073 | pp | ACT1 (pp)<br>CDC42 | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.P0CY33     | 0.077 |       | 0.348 | 0.116 |       |  | 0.969 | 0.949 |
| 123.6163 | pp | ACT1 (pp)<br>CYR1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.A0A1D8PR83 | 0.044 |       |       | 0.668 |       |  | 0.887 | 0.674 |
| 86.23417 | pp | ACT1 (pp)<br>BEM1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp) 237561.A0A1D8PLB6    |       |       |       | 0.195 |       |  | 0.767 | 0.724 |
| 78.77866 | pp | ACT1 (pp)<br>PKC1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.Q5ANK2     | 0.06  |       | 0.269 | 0.16  |       |  | 0.818 | 0.722 |
| 88.23037 | pp | ACT1 (pp)<br>CDC28 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.P43063     | 0.073 |       | 0.123 | 0.042 | 0.015 |  | 0.781 | 0.753 |
| 63.37494 | pp | ACT1 (pp)<br>CDC24 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.A0A1D8PNB5 | 0.044 |       |       | 0.11  |       |  | 0.833 | 0.82  |
| 150.8224 | pp | ACT1 (pp)<br>HSP70 | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.P41797     | 0.061 |       | 0.112 | 0.12  |       |  | 0.752 | 0.702 |
| 143.2397 | pp | ACT1 (pp)<br>CLB2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.Q5ALY0     | 0.466 |       |       | 0.152 |       |  | 0.702 | 0.395 |
| 265.5457 | pp | ACT1 (pp)<br>HOG1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.Q92207     | 0.076 |       | 0.063 | 0.122 | 0.004 |  | 0.825 | 0.798 |
| 548      | pp | ACT1 (pp)<br>URA3  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp) 237561.P13649        |       |       |       |       |       |  | 0.846 | 0.847 |
| 97.26752 | pp | ACT1 (pp)<br>RHO1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.O42825     | 0.092 |       | 0.277 | 0.116 |       |  | 0.918 | 0.877 |
| 200.2969 | pp | ACT1 (pp)<br>HSP90 | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.P46598     | 0.057 |       | 0.279 | 0.174 |       |  | 0.824 | 0.724 |
| 67.57381 | pp | ACT1 (pp)<br>BNI1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp) 237561.Q5AL52        |       |       | 0.186 | 0.74  |       |  | 0.976 | 0.898 |
| 343.4764 | pp | ACT1 (pp)<br>RAS1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp)<br>237561.Q59XU5     | 0.076 |       | 0.127 | 0.121 | 0.002 |  | 0.712 | 0.642 |
| 79.97073 | pp | ACT1 (pp)<br>BNR1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PFR4 (pp) 237561.Q5AAF4        |       |       | 0.186 | 0.74  |       |  | 0.943 | 0.755 |
| 11.44256 | pp | RAC1 (pp)<br>BEM1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.A0A1D8PLB6 | 0.045 |       | 0.125 | 0.74  |       |  | 0.846 | 0.378 |
| 18.77755 | pp | RAC1 (pp)<br>CDC24 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.A0A1D8PNB5 | 0.057 |       | 0.263 | 0.795 |       |  | 0.934 | 0.592 |
| 25.42077 | pp | RAC1 (pp)<br>LRG1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.A0A1D8PRQ6 | 0.069 |       | 0.971 | 0.629 |       |  | 0.993 | 0.399 |
| 73.78693 | pp | RAC1 (pp)<br>ACT1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.A0A1D8PFR4 | 0.076 | 0.221 | 0.348 | 0.116 |       |  | 0.797 | 0.588 |

|          |    |                    |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|--------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 62.07139 | pp | RAC1 (pp)<br>DCK1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.A0A1D8PH11 | 0.129 |       | 0.351 | 0.507 |       |  | 0.915 | 0.733 |
| 35.90947 | pp | RAC1 (pp)<br>RGA2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp) 237561.Q5AMQ3        |       |       | 0.971 | 0.991 |       |  | 0.999 | 0.644 |
| 74.70455 | pp | RAC1 (pp)<br>PKC1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.Q5ANK2     | 0.049 |       | 0.57  | 0.501 |       |  | 0.855 | 0.376 |
| 110.7423 | pp | RAC1 (pp)<br>CEK1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp) 237561.Q5A1D3        |       |       | 0.264 | 0.311 |       |  | 0.749 | 0.546 |
| 60.6489  | pp | RAC1 (pp)<br>CST20 | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.P0CY24     | 0.042 |       | 0.528 | 0.693 |       |  | 0.916 | 0.471 |
| 21.96381 | pp | RAC1 (pp)<br>CLA4  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDV5 (pp)<br>237561.Q5APR8     | 0.042 |       | 0.528 | 0.693 |       |  | 0.882 | 0.256 |
| 111.8811 | pp | SSK1 (pp)<br>HOG1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AKU6 (pp) 237561.Q92207            |       |       | 0.134 | 0.122 |       |  | 0.955 | 0.947 |
| 8.751726 | pp | SSK1 (pp)<br>SHO1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AKU6 (pp) 237561.Q5AQ36            |       |       |       | 0.438 | 0.038 |  | 0.953 | 0.921 |
| 3.826623 | pp | OPY2 (pp)<br>SHO1  | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A753 (pp) 237561.Q5AQ36            |       |       |       | 0.196 |       |  | 0.949 | 0.94  |
| 7.52717  | pp | OPY2 (pp)<br>SLN1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A753 (pp) 237561.Q5A872            |       |       |       | 0.079 |       |  | 0.738 | 0.727 |
| 7.52717  | pp | OPY2 (pp)<br>SSK1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5A753 (pp)<br>237561.Q5AKU6         | 0.043 |       |       | 0.146 |       |  | 0.743 | 0.711 |
| 110.4312 | pp | OPY2 (pp)<br>HOG1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5A753 (pp) 237561.Q92207            | 0.044 |       |       | 0.064 |       |  | 0.824 | 0.819 |
| 2        | pp | MRS4 (pp)<br>SMF3  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A2T7 (pp) 237561.Q5ACZ8            |       |       |       |       |       |  | 0.885 | 0.886 |
| 91.96846 | pp | PDE1 (pp)<br>TPK1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AGE4 (pp) 237561.Q5AP71            |       |       |       |       |       |  | 0.707 | 0.707 |
| 15.06254 | pp | PDE1 (pp)<br>BCY1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AGE4 (pp) 237561.Q9HEW1            |       |       |       | 0.106 |       |  | 0.849 | 0.838 |
| 4        | pp | STT4 (pp)<br>FGR22 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTE0 (pp)<br>237561.Q5ALJ2     | 0.062 |       | 0.9   |       |       |  | 0.902 |       |
| 98.25163 | pp | HST7 (pp)<br>MKC1  | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A6T5 (pp)<br>237561.Q5AAG6         | 0.044 | 0.219 | 0.27  | 0.402 |       |  | 0.747 | 0.344 |
| 102.7864 | pp | HST7 (pp)<br>HOG1  | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A6T5 (pp) 237561.Q92207            | 0.044 | 0.178 | 0.27  | 0.402 |       |  | 0.753 | 0.391 |
| 38.111   | pp | HST7 (pp)<br>SHO1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A6T5 (pp) 237561.Q5AQ36            |       |       |       | 0.381 |       |  | 0.855 | 0.776 |
| 27.01494 | pp | SCH9 (pp)<br>BCY1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AHG6 (pp) 237561.Q9HEW1            |       |       |       | 0.146 | 0.646 |  | 0.818 | 0.446 |
| 2        | pp | GSC1 (pp)<br>GSL1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PCT0 (pp) 237561.A0A1D8PDL5    |       | 0.073 | 0.9   |       |       |  | 0.906 | 0.069 |
| 11.8137  | pp | SAC7 (pp)<br>BEM2  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PQG5 (pp)<br>237561.Q5AGW7     | 0.051 |       | 0.258 |       |       |  | 0.741 | 0.662 |
| 181.3883 | pp | SAC7 (pp)<br>RGA2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQG5 (pp)<br>237561.Q5AMQ3     | 0.054 |       | 0.601 |       |       |  | 0.798 | 0.51  |
| 82.79795 | pp | SAC7 (pp)<br>RHO1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQG5 (pp) 237561.O42825        |       |       | 0.922 | 0.547 |       |  | 0.991 | 0.781 |
| 276      | pp | MSS11 (pp)<br>FLO8 | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q59N20 (pp) 237561.Q59QW5            |       |       |       | 0.292 |       |  | 0.785 | 0.709 |
| 8.751726 | pp | SLN1 (pp)<br>SHO1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5A872 (pp) 237561.Q5AQ36            |       |       |       | 0.152 |       |  | 0.953 | 0.948 |
| 111.8811 | pp | SLN1 (pp)<br>HOG1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5A872 (pp) 237561.Q92207            |       |       | 0.134 | 0.194 |       |  | 0.943 | 0.926 |
| 39.94114 | pp | LRG1 (pp)<br>BEM2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp)<br>237561.Q5AGW7     | 0.153 |       | 0.258 | 0.183 |       |  | 0.722 | 0.523 |
| 36.22839 | pp | LRG1 (pp)<br>RHO1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp)<br>237561.O42825     | 0.046 |       | 0.971 | 0.629 |       |  | 0.996 | 0.722 |
| 46.66243 | pp | LRG1 (pp)<br>PKC1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp) 237561.Q5ANK2        |       |       | 0.119 | 0.155 |       |  | 0.87  | 0.84  |
| 61.37343 | pp | LRG1 (pp)<br>RHB1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp) 237561.Q5ANA9        |       |       | 0.597 | 0.256 |       |  | 0.746 | 0.224 |
| 79.68477 | pp | LRG1 (pp)<br>CDC42 | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp) 237561.P0CY33        |       |       | 0.971 | 0.629 |       |  | 0.993 | 0.462 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |       |       |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 241.0632 | pp | LRG1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp) 237561.Q59XU5        |       |       | 0.597 | 0.256 |       |       | 0.793 | 0.365 |
| 22.14908 | pp | LRG1 (pp)<br>RGA2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PRQ6 (pp)<br>237561.Q5AMQ3     | 0.092 |       | 0.601 | 0.152 |       |       | 0.87  | 0.628 |
| 200.7796 | pp | SGT1 (pp)<br>HSP90  | Physcial             | 1 | FAL<br>SE | pp | 237561.A0A1D8PIG5 (pp)<br>237561.P46598     | 0.045 |       | 0.971 | 0.994 |       |       | 0.999 | 0.901 |
| 75.22037 | pp | SGT1 (pp)<br>CYR1   | Physcial             | 1 | FAL<br>SE | pp | 237561.A0A1D8PIG5 (pp) 237561.A0A1D8PR83    |       |       |       | 0.776 |       |       | 0.946 | 0.77  |
| 42.05351 | pp | BCK1 (pp)<br>RHO1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PR87 (pp)<br>237561.O42825     | 0.109 |       | 0.071 | 0.191 |       |       | 0.938 | 0.919 |
| 63.88295 | pp | BCK1 (pp)<br>PKC1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PR87 (pp)<br>237561.Q5ANK2     | 0.044 | 0.148 | 0.9   | 0.793 |       |       | 0.989 | 0.495 |
| 58.03971 | pp | BCK1 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PR87 (pp)<br>237561.Q5AAG6     | 0.044 | 0.228 |       | 0.79  |       |       | 0.914 | 0.516 |
| 106.9082 | pp | BCK1 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PR87 (pp)<br>237561.Q5A6T5     | 0.051 | 0.247 | 0.121 | 0.7   |       |       | 0.882 | 0.472 |
| 70.62267 | pp | BCK1 (pp)<br>MCM1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PR87 (pp) 237561.Q5AFP3        |       |       | 0.566 | 0.252 |       |       | 0.765 | 0.335 |
| 89.53854 | pp | WOR3 (pp)<br>WOR1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A6T8 (pp)<br>237561.Q5AP80         | 0.046 |       |       | 0.292 |       |       | 0.895 | 0.858 |
| 71.01701 | pp | CYR1 (pp)<br>PDE1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PR83 (pp)<br>237561.Q5AGE4     | 0.046 |       | 0.9   | 0.15  |       |       | 0.976 | 0.75  |
| 44.20531 | pp | CYR1 (pp)<br>TPK1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PR83 (pp) 237561.Q5AP71        |       |       | 0.902 | 0.15  |       |       | 0.991 | 0.911 |
| 128.3966 | pp | CYR1 (pp)<br>HSP90  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PR83 (pp) 237561.P46598        |       |       |       | 0.372 |       | 0.043 | 0.776 | 0.657 |
| 101.0537 | pp | CYR1 (pp)<br>RAS1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PR83 (pp) 237561.Q59XU5        |       |       | 0.9   | 0.544 |       |       | 0.998 | 0.965 |
| 28.92544 | pp | CYR1 (pp)<br>BCY1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PR83 (pp)<br>237561.Q9HEW1     | 0.051 |       | 0.098 | 0.495 |       | 0.115 | 0.942 | 0.872 |
| 172.3667 | pp | CRZ1 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A4H5 (pp) 237561.Q5AAG6            |       |       | 0.116 | 0.15  |       |       | 0.74  | 0.682 |
| 344.6892 | pp | CRZ1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A4H5 (pp)<br>237561.Q9UW14         | 0.046 |       |       | 0.145 |       |       | 0.755 | 0.725 |
| 187.7471 | pp | CRZ1 (pp)<br>CCH1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A4H5 (pp)<br>237561.Q5A936         | 0.158 |       | 0.115 |       |       |       | 0.889 | 0.863 |
| 353.0528 | pp | EFG1 (pp)<br>WOR1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5AP80            |       |       |       | 0.292 |       |       | 0.9   | 0.865 |
| 81.34092 | pp | EFG1 (pp)<br>NDT80  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp)<br>237561.Q5ACU9         | 0.069 |       |       |       |       |       | 0.867 | 0.863 |
| 12.36086 | pp | EFG1 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp)<br>237561.Q5A0E5         | 0.189 |       |       | 0.071 |       |       | 0.937 | 0.924 |
| 328.0783 | pp | EFG1 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5A1D3            |       |       | 0.116 | 0.147 |       |       | 0.751 | 0.696 |
| 158.8752 | pp | EFG1 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5ABE2            |       |       |       | 0.123 |       |       | 0.851 | 0.838 |
| 72.09638 | pp | EFG1 (pp)<br>ALS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5A8T4            |       |       | 0.089 | 0.144 |       |       | 0.913 | 0.898 |
| 36.44198 | pp | EFG1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5ANJ4            |       |       |       | 0.152 |       |       | 0.949 | 0.943 |
| 227.5152 | pp | EFG1 (pp)<br>CZF1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5A0W9            |       |       |       | 0.612 |       |       | 0.945 | 0.866 |
| 42.98761 | pp | EFG1 (pp)<br>RFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5A220            |       |       | 0.074 | 0.163 |       |       | 0.862 | 0.836 |
| 281.0933 | pp | EFG1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp)<br>237561.Q59XU5         | 0.056 |       | 0.115 | 0.122 | 0.011 |       | 0.866 | 0.84  |
| 71.12508 | pp | EFG1 (pp)<br>TPK1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q5AP71            |       |       | 0.908 | 0.148 |       |       | 0.974 | 0.703 |
| 167.3943 | pp | EFG1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q59X67 (pp) 237561.Q9UW14            |       |       |       | 0.119 |       |       | 0.736 | 0.714 |
| 79.16735 | pp | GTR1 (pp)<br>RHB1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PI64 (pp)<br>237561.Q5ANA9     | 0.046 |       | 0.624 | 0.043 |       |       | 0.949 | 0.87  |
| 37.76848 | pp | GTR1 (pp)<br>TSC2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PI64 (pp)<br>237561.A0A1D8PMB6 | 0.046 |       | 0.592 | 0.375 |       |       | 0.922 | 0.72  |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 24.6502  | pp | STE4 (pp)<br>CEK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PT38 | 0.658 |       | 0.176 | 0.199 |       |  | 0.93  | 0.727 |
| 108.5109 | pp | STE4 (pp)<br>CPH1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.P43079        |       |       | 0.061 | 0.095 |       |  | 0.7   | 0.676 |
| 33.10372 | pp | STE4 (pp)<br>CDC24  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.A0A1D8PNB5    |       |       |       | 0.796 |       |  | 0.932 | 0.684 |
| 23.69084 | pp | STE4 (pp)<br>CST20  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.P0CY24        |       |       | 0.951 | 0.274 |       |  | 0.992 | 0.803 |
| 68.52137 | pp | STE4 (pp)<br>SST2   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PNF8 | 0.075 |       | 0.624 | 0.809 |       |  | 0.987 | 0.839 |
| 16.52835 | pp | STE4 (pp)<br>FAR1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PQH4 | 0.249 |       | 0.909 | 0.252 |       |  | 0.989 | 0.815 |
| 22.58023 | pp | STE4 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.Q5A6T5        |       |       |       | 0.146 |       |  | 0.885 | 0.871 |
| 33.94503 | pp | STE4 (pp)<br>CLA4   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.Q5APR8        |       |       | 0.951 | 0.274 |       |  | 0.971 | 0.261 |
| 34.50662 | pp | STE4 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.Q5A1D3     | 0.062 |       | 0.176 | 0.199 |       |  | 0.704 | 0.58  |
| 139.8724 | pp | STE4 (pp)<br>CYR1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp) 237561.A0A1D8PR83    |       |       | 0.361 | 0.077 |       |  | 0.755 | 0.618 |
| 24.04512 | pp | STE4 (pp)<br>STE18  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PQX7 | 0.232 |       | 0.8   | 0.945 |       |  | 0.999 | 0.992 |
| 55.93006 | pp | STE4 (pp)<br>STE2   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PTB4 | 0.335 |       |       | 0.817 |       |  | 0.992 | 0.947 |
| 81.99926 | pp | STE4 (pp)<br>CDC42  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.P0CY33     | 0.051 |       | 0.409 | 0.156 |       |  | 0.782 | 0.594 |
| 13.10547 | pp | STE4 (pp)<br>CST5   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH43 (pp)<br>237561.A0A1D8PQE8 | 0.127 |       | 0.9   | 0.731 |       |  | 0.996 | 0.868 |
| 98.89633 | pp | TPK1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AP71 (pp) 237561.Q9UW14            |       |       | 0.119 | 0.146 |       |  | 0.752 | 0.697 |
| 37.88113 | pp | TPK1 (pp)<br>BCY1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q5AP71 (pp)<br>237561.Q9HEW1         | 0.241 |       | 0.598 | 0.889 | 0.899 |  | 0.999 | 0.995 |
| 276      | pp | URA3 (pp)<br>IRO1   | NA                   | 0 | FAL<br>SE | pp | 237561.P13649 (pp) 237561.Q5AJ77            |       | 0.057 |       |       |       |  | 0.87  | 0.868 |
| 35.51264 | pp | TPK2 (pp)<br>CYR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.A0A1D8PR83 | 0.066 |       | 0.902 | 0.15  |       |  | 0.992 | 0.913 |
| 36.64907 | pp | TPK2 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.Q5A0E5        |       |       | 0.124 | 0.151 |       |  | 0.753 | 0.695 |
| 82.87146 | pp | TPK2 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.Q5ANJ4        |       |       |       | 0.067 |       |  | 0.717 | 0.71  |
| 126.2944 | pp | TPK2 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.Q5AAG6     | 0.05  | 0.205 | 0.9   | 0.175 |       |  | 0.944 | 0.247 |
| 39.50335 | pp | TPK2 (pp)<br>BCY1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.Q9HEW1     | 0.272 |       | 0.598 | 0.837 | 0.899 |  | 0.999 | 0.992 |
| 95.02363 | pp | TPK2 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.Q9UW14        |       |       | 0.119 | 0.146 |       |  | 0.753 | 0.699 |
| 88.48794 | pp | TPK2 (pp)<br>PDE1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.Q5AGE4     | 0.046 |       |       |       |       |  | 0.75  | 0.75  |
| 85.81703 | pp | TPK2 (pp)<br>EFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.Q59X67        |       |       | 0.908 | 0.148 |       |  | 0.974 | 0.702 |
| 6.594456 | pp | TPK2 (pp)<br>TPK1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.Q5AP71        |       | 0.057 | 0.9   |       |       |  | 0.967 | 0.681 |
| 57.06344 | pp | TPK2 (pp)<br>RAS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.Q59XU5     | 0.049 |       | 0.905 | 0.199 |       |  | 0.99  | 0.887 |
| 175.6889 | pp | TPK2 (pp)<br>HSP90  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp) 237561.P46598        |       |       |       | 0.146 |       |  | 0.734 | 0.702 |
| 39.99356 | pp | TPK2 (pp)<br>GPR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.A0A1D8PN42 | 0.054 |       |       | 0.072 |       |  | 0.734 | 0.722 |
| 86.09496 | pp | TPK2 (pp)<br>CPH1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PHU1 (pp)<br>237561.P43079     | 0.045 |       | 0.124 | 0.151 |       |  | 0.701 | 0.63  |
| 12.04848 | pp | YCK2 (pp)<br>STE3   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PKB4 (pp) 237561.Q5A9Z4        |       |       | 0.9   |       |       |  | 0.9   |       |
| 263.9515 | pp | YCK2 (pp)<br>STE2   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PKB4 (pp) 237561.A0A1D8PTB4    |       |       | 0.9   |       |       |  | 0.903 | 0.073 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |       |       |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 2        | pp | GCA2 (pp)<br>GCA1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PEW1 (pp)<br>237561.O74254     | 0.488 | 0.047 | 0.9   |       |       |       | 0.947 | 0.052 |
| 2.666667 | pp | MDH1-3 (pp)<br>MLS1 | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A5S6 (pp)<br>237561.Q5APD2         | 0.156 |       | 0.9   | 0.1   |       |       | 0.947 | 0.387 |
| 24.7047  | pp | CEK2 (pp)<br>CEK1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp)<br>237561.Q5A1D3     | 0.101 | 0.062 | 0.9   | 0.45  |       |       | 0.949 | 0.076 |
| 20.76186 | pp | CEK2 (pp)<br>HST7   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp)<br>237561.Q5A6T5     | 0.044 | 0.222 | 0.955 | 0.778 |       |       | 0.995 | 0.538 |
| 95.73327 | pp | CEK2 (pp)<br>STE2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp)<br>237561.A0A1D8PTB4 | 0.345 |       |       |       |       |       | 0.843 | 0.77  |
| 119.8574 | pp | CEK2 (pp)<br>CPH1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp)<br>237561.P43079     | 0.091 |       | 0.908 | 0.763 |       |       | 0.994 | 0.768 |
| 70.50416 | pp | CEK2 (pp)<br>BNI1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp) 237561.Q5AL52        |       |       | 0.9   | 0.122 |       |       | 0.911 | 0.075 |
| 86.71213 | pp | CEK2 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp) 237561.Q59VR1        |       |       | 0.296 | 0.567 |       |       | 0.716 | 0.144 |
| 37.52885 | pp | CEK2 (pp)<br>PTP3   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PT38 (pp) 237561.A0A1D8PU75    |       |       | 0.923 | 0.261 |       |       | 0.943 | 0.097 |
| 16.74499 | pp | HSP70 (pp)<br>MSI3  | NA                   | 0 | FAL<br>SE | pp | 237561.P41797 (pp) 237561.Q96VB9            | 0.309 | 0.171 | 0.281 | 0.424 |       |       | 0.817 | 0.35  |
| 38.04701 | pp | HSP70 (pp)<br>CTA8  | Physical             | 1 | FAL<br>SE | pp | 237561.P41797 (pp) 237561.Q5AQ33            | 0.089 |       | 0.449 | 0.57  |       |       | 0.938 | 0.748 |
| 34.31476 | pp | HSP70 (pp)<br>HSP21 | NA                   | 0 | FAL<br>SE | pp | 237561.P41797 (pp)<br>237561.Q5AHH4         | 0.485 |       |       | 0.079 |       | 0.055 | 0.847 | 0.701 |
| 14.86544 | pp | HSP70 (pp)<br>SSA2  | Physical             | 1 | FAL<br>SE | pp | 237561.P41797 (pp) 237561.P46587            | 0.051 | 0.049 | 0.9   | 0.23  |       |       | 0.922 | 0.055 |
| 138.3806 | pp | HSP70 (pp)<br>HSP90 | Physical             | 1 | FAL<br>SE | pp | 237561.P41797 (pp) 237561.P46598            | 0.52  |       | 0.261 | 0.544 | 0.004 |       | 0.98  | 0.893 |
| 19.31807 | pp | RBT1 (pp)<br>ALS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59TP1 (pp) 237561.Q5A8T4            |       |       | 0.071 | 0.248 |       |       | 0.707 | 0.615 |
| 146.1772 | pp | RBT1 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59TP1 (pp)<br>237561.Q5ABE2         | 0.539 |       |       | 0.112 |       |       | 0.801 | 0.554 |
| 13.4673  | pp | BCR1 (pp)<br>NDT80  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59U10 (pp)<br>237561.Q5ACU9         | 0.045 |       |       |       |       |       | 0.868 | 0.868 |
| 15.44885 | pp | BCR1 (pp)<br>ALS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59U10 (pp) 237561.Q5A8T4            |       |       | 0.089 | 0.144 |       |       | 0.885 | 0.865 |
| 64.93005 | pp | BCR1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59U10 (pp)<br>237561.Q5ANJ4         | 0.095 |       |       | 0.171 |       |       | 0.938 | 0.924 |
| 59.15506 | pp | BCR1 (pp)<br>EFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59U10 (pp)<br>237561.Q59X67         | 0.046 |       |       | 0.067 |       |       | 0.923 | 0.921 |
| 20.01579 | pp | SPA2 (pp)<br>BNI1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp)<br>237561.Q5AL52     | 0.046 |       |       | 0.351 |       |       | 0.953 | 0.931 |
| 11.20339 | pp | SPA2 (pp)<br>BNR1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp)<br>237561.Q5AAF4     | 0.102 |       |       | 0.121 |       |       | 0.747 | 0.706 |
| 86.48881 | pp | SPA2 (pp)<br>CDC42  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp) 237561.P0CY33        |       |       | 0.72  | 0.184 |       |       | 0.951 | 0.804 |
| 94.73245 | pp | SPA2 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp) 237561.Q5AAG6        |       |       | 0.9   | 0.256 |       |       | 0.922 | 0.047 |
| 79.08212 | pp | SPA2 (pp)<br>ACT1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp) 237561.A0A1D8PFR4    |       |       |       | 0.175 |       |       | 0.751 | 0.711 |
| 24.64405 | pp | SPA2 (pp)<br>MKK2   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PFH4 (pp)<br>237561.A0A1D8PHG7 | 0.046 |       | 0.9   | 0.185 |       |       | 0.922 | 0.122 |
| 60.40366 | pp | PTC1 (pp)<br>PBS2   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PEN6 (pp)<br>237561.A0A1D8PKE2 | 0.046 |       |       | 0.463 |       |       | 0.762 | 0.573 |
| 19.28659 | pp | PTC1 (pp)<br>PTP2   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PEN6 (pp) 237561.A0A1D8PLX9    |       |       |       | 0.247 |       |       | 0.743 | 0.673 |
| 16.59929 | pp | PTC1 (pp)<br>PTP3   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PEN6 (pp)<br>237561.A0A1D8PU75 | 0.046 |       |       | 0.247 |       |       | 0.883 | 0.851 |
| 179.7104 | pp | PTC1 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PEN6 (pp)<br>237561.Q92207     | 0.071 |       | 0.908 | 0.535 |       |       | 0.988 | 0.754 |
| 73.78399 | pp | BEM2 (pp)<br>RGA2   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AGW7 (pp) 237561.Q5AMQ3            |       |       | 0.971 | 0.582 |       |       | 0.993 | 0.484 |
| 33.68239 | pp | CLB4 (pp)<br>SWE1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0A9 (pp)<br>237561.Q5AP97         | 0.273 |       | 0.592 | 0.749 |       |       | 0.95  | 0.411 |

|          |    |                    |                      |   |           |    |                                             |       |  |       |       |       |       |       |       |       |
|----------|----|--------------------|----------------------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|-------|-------|-------|-------|-------|
| 61.48489 | pp | CPH2 (pp)<br>TEC1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RL7 (pp) 237561.Q5ANJ4            |       |  |       |       |       |       | 0.854 | 0.854 |       |
| 14.38068 | pp | CPH2 (pp)<br>BCR1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RL7 (pp)<br>237561.Q59U10         | 0.044 |  | 0.064 | 0.119 |       |       | 0.706 | 0.672 |       |
| 68.3208  | pp | CPH2 (pp)<br>EFG1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59RL7 (pp)<br>237561.Q59X67         | 0.059 |  | 0.055 | 0.119 |       |       | 0.732 | 0.699 |       |
| 25.56479 | pp | CLB2 (pp)<br>SWE1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5ALY0 (pp)<br>237561.Q5AP97         | 0.177 |  | 0.957 | 0.749 |       |       | 0.997 | 0.77  |       |
| 82.83387 | pp | HGC1 (pp)<br>TPK1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5ABE2 (pp) 237561.Q5AP71            |       |  |       | 0.065 |       |       | 0.711 | 0.704 |       |
| 183.0225 | pp | HGC1 (pp)<br>RGA2  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5ABE2 (pp)<br>237561.Q5AMQ3         | 0.08  |  |       | 0.539 |       |       | 0.82  | 0.611 |       |
| 136.8176 | pp | HGC1 (pp)<br>SWE1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5ABE2 (pp)<br>237561.Q5AP97         | 0.126 |  | 0.36  | 0.434 |       |       | 0.75  | 0.305 |       |
| 4.265967 | pp | BRG1 (pp)<br>NDT80 | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp) 237561.Q5ACU9            |       |  |       |       |       |       | 0.866 | 0.866 |       |
| 35.34078 | pp | BRG1 (pp)<br>NRG1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q5A0E5         | 0.044 |  | 0.099 | 0.122 |       |       | 0.855 | 0.831 |       |
| 65.67074 | pp | BRG1 (pp)<br>TEC1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q5ANJ4         | 0.109 |  |       | 0.081 |       |       | 0.882 | 0.868 |       |
| 31.89225 | pp | BRG1 (pp)<br>UME6  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q59MD2         | 0.192 |  |       | 0.065 |       |       | 0.861 | 0.832 |       |
| 11.25021 | pp | BRG1 (pp)<br>BCR1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q59U10         | 0.148 |  | 0.099 | 0.122 |       |       | 0.897 | 0.866 |       |
| 16.67801 | pp | BRG1 (pp)<br>FLO8  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q59QW5         | 0.051 |  | 0.116 | 0.119 |       |       | 0.742 | 0.693 |       |
| 59.5606  | pp | BRG1 (pp)<br>EFG1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp) 237561.Q59X67            |       |  |       | 0.099 | 0.122 |       |       | 0.886 | 0.868 |
| 13.76318 | pp | BRG1 (pp)<br>RFG1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59LY1 (pp)<br>237561.Q5A220         | 0.057 |  | 0.123 | 0.085 |       |       | 0.74  | 0.698 |       |
| 17.69843 | pp | CST5 (pp)<br>CEK2  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.A0A1D8PT38 | 0.191 |  |       | 0.754 |       |       | 0.971 | 0.867 |       |
| 10.20489 | pp | CST5 (pp)<br>STE18 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.A0A1D8PQX7 | 0.106 |  | 0.9   | 0.194 |       |       | 0.983 | 0.801 |       |
| 19.288   | pp | CST5 (pp)<br>STE2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.A0A1D8PTB4 | 0.152 |  |       | 0.146 |       |       | 0.845 | 0.803 |       |
| 38.90659 | pp | CST5 (pp)<br>CEK1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.Q5A1D3     | 0.105 |  |       | 0.817 |       |       | 0.939 | 0.658 |       |
| 32.08198 | pp | CST5 (pp)<br>HST7  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp) 237561.Q5A6T5        |       |  |       | 0.885 |       |       | 0.981 | 0.842 |       |
| 19.30282 | pp | CST5 (pp)<br>FAR1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.A0A1D8PQH4 | 0.098 |  |       | 0.314 |       |       | 0.894 | 0.843 |       |
| 87.80232 | pp | CST5 (pp)<br>CPH1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp)<br>237561.P43079     | 0.101 |  |       | 0.077 |       |       | 0.746 | 0.719 |       |
| 37.10014 | pp | CST5 (pp)<br>CST20 | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PQE8 (pp) 237561.P0CY24        |       |  |       | 0.146 |       |       | 0.749 | 0.719 |       |
| 353.3614 | pp | CAP1 (pp)<br>HOG1  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AJU7 (pp) 237561.Q92207            |       |  |       | 0.122 |       |       | 0.747 | 0.725 |       |
| 2        | pp | NAD2 (pp)<br>ATP6  | NA                   | 0 | FAL<br>SE | pp | 237561.Q9B8D2 (pp)<br>237561.Q9B8D4         | 0.969 |  |       |       |       | 0.108 | 0.998 | 0.952 |       |
| 12.75535 | pp | CMP1 (pp)<br>CNB1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PCA8 (pp)<br>237561.A0A1D8PP58 | 0.123 |  | 0.82  | 0.994 |       |       | 0.999 | 0.872 |       |
| 263.2446 | pp | CMP1 (pp)<br>CRZ1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PCA8 (pp) 237561.Q5A4H5        |       |  |       | 0.056 | 0.154 |       | 0.702 | 0.658 |       |
| 103.2779 | pp | RSP5 (pp)<br>STE3  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59Y21 (pp) 237561.Q5A9Z4            |       |  |       | 0.9   |       |       | 0.9   |       |       |
| 517.5793 | pp | RSP5 (pp)<br>TEC1  | Physical             | 1 | FAL<br>SE | pp | 237561.Q59Y21 (pp) 237561.Q5ANJ4            |       |  |       | 0.565 | 0.632 |       | 0.851 | 0.147 |       |
| 85.46056 | pp | CEK1 (pp)<br>SHO1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A1D3 (pp)<br>237561.Q5AQ36         | 0.102 |  |       | 0.176 |       |       | 0.789 | 0.738 |       |
| 148.1209 | pp | CEK1 (pp)<br>HGC1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A1D3 (pp)<br>237561.Q5ABE2         | 0.504 |  | 0.13  | 0.121 |       |       | 0.739 | 0.394 |       |
| 94.35517 | pp | CEK1 (pp)<br>BNI1  | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A1D3 (pp)<br>237561.Q5AL52         | 0.156 |  | 0.9   | 0.122 |       |       | 0.922 | 0.075 |       |

|          |    |                      |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|----------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 77.57724 | pp | CEK1 (pp)<br>OPY2    | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A1D3 (pp)<br>237561.Q5A753         | 0.075 |       |       | 0.064 |       |  | 0.727 | 0.711 |
| 15.16384 | pp | CEK1 (pp)<br>HST7    | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A1D3 (pp)<br>237561.Q5A6T5         | 0.044 | 0.211 | 0.955 | 0.878 |       |  | 0.997 | 0.55  |
| 87.02645 | pp | PKH2 (pp)<br>SCH9    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5A3P6 (pp) 237561.Q5AHG6            |       |       | 0.191 | 0.288 | 0.392 |  | 0.756 | 0.385 |
| 196.9406 | pp | PKH2 (pp)<br>PKC1    | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A3P6 (pp)<br>237561.Q5ANK2         | 0.046 |       | 0.958 | 0.664 |       |  | 0.989 | 0.324 |
| 816      | pp | SPT23 (pp)<br>RSP5   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PIM6 (pp)<br>237561.Q59Y21     | 0.12  |       |       | 0.403 |       |  | 0.8   | 0.651 |
| 548      | pp | SPT23 (pp)<br>OLE1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PIM6 (pp)<br>237561.Q5A747     | 0.082 |       | 0.064 | 0.423 |       |  | 0.95  | 0.912 |
| 71.25126 | pp | HSL1 (pp)<br>SWE1    | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5AG71 (pp)<br>237561.Q5AP97         | 0.123 | 0.243 | 0.9   | 0.648 |       |  | 0.981 | 0.325 |
| 252.8983 | pp | HSL1 (pp)<br>HOG1    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5AG71 (pp)<br>237561.Q92207         | 0.053 | 0.15  | 0.9   | 0.149 |       |  | 0.922 |       |
| 113.0359 | pp | BMH1 (pp)<br>CDC28   | Physical             | 1 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.P43063            | 0.156 |       | 0.572 | 0.153 |       |  | 0.742 | 0.257 |
| 226.7218 | pp | BMH1 (pp)<br>CDC42   | Genetic              | 2 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.P0CY33            | 0.261 |       | 0.922 | 0.146 |       |  | 0.957 | 0.233 |
| 418.3296 | pp | BMH1 (pp)<br>RSP5    | Physical             | 1 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.Q59Y21            |       |       | 0.547 | 0.39  |       |  | 0.757 | 0.193 |
| 92.80158 | pp | BMH1 (pp)<br>CTA8    | NA                   | 0 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.Q5AQ33            |       |       | 0.621 | 0.191 |       |  | 0.71  | 0.133 |
| 209.1413 | pp | BMH1 (pp)<br>RAS1    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.Q59XU5            |       |       | 0.563 | 0.175 |       |  | 0.728 | 0.307 |
| 150.0229 | pp | BMH1 (pp)<br>CST20   | NA                   | 0 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.P0CY24            |       |       | 0.9   | 0.159 |       |  | 0.926 | 0.201 |
| 67.26487 | pp | BMH1 (pp)<br>RHB1    | NA                   | 0 | FAL<br>SE | pp | 237561.O42766 (pp) 237561.Q5ANA9            |       |       | 0.619 | 0.152 |       |  | 0.71  | 0.175 |
| 2        | pp | RIM20 (pp)<br>RIM8   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q9UW12 (pp) 237561.Q9UW13            |       |       |       | 0.119 |       |  | 0.94  | 0.935 |
| 270      | pp | RIM20 (pp)<br>RIM101 | Physical             | 1 | FAL<br>SE | pp | 237561.Q9UW12 (pp) 237561.Q9UW14            |       |       |       | 0.513 |       |  | 0.978 | 0.958 |
| 150.2766 | pp | STE2 (pp)<br>HST7    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp) 237561.Q5A6T5        |       |       |       | 0.077 |       |  | 0.847 | 0.841 |
| 263.0973 | pp | STE2 (pp)<br>RSP5    | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp) 237561.Q59Y21        |       |       | 0.9   |       |       |  | 0.909 | 0.13  |
| 155.0463 | pp | STE2 (pp)<br>FUS1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp)<br>237561.Q59TT8     | 0.334 |       |       |       |       |  | 0.894 | 0.848 |
| 263.9515 | pp | STE2 (pp)<br>MFALPHA | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp)<br>237561.Q59QG8     | 0.1   |       | 0.9   |       |       |  | 0.993 | 0.929 |
| 186.8191 | pp | STE2 (pp)<br>STE3    | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp)<br>237561.Q5A9Z4     | 0.055 | 0.253 |       |       |       |  | 0.919 | 0.895 |
| 148.3447 | pp | STE2 (pp)<br>CST20   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp) 237561.P0CY24        |       |       |       |       |       |  | 0.739 | 0.74  |
| 185.339  | pp | STE2 (pp)<br>CEK1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp)<br>237561.Q5A1D3     | 0.307 |       |       |       |       |  | 0.746 | 0.649 |
| 310.3939 | pp | STE2 (pp)<br>CPH1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PTB4 (pp)<br>237561.P43079     | 0.15  |       |       | 0.146 |       |  | 0.768 | 0.707 |
| 270      | pp | RIM8 (pp)<br>RIM101  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q9UW13 (pp) 237561.Q9UW14            |       |       |       | 0.274 |       |  | 0.958 | 0.945 |
| 268.596  | pp | PKH3 (pp)<br>PKC1    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PPB9 (pp)<br>237561.Q5ANK2     | 0.046 | 0.112 | 0.951 | 0.414 |       |  | 0.975 | 0.154 |
| 7.40404  | pp | PKH3 (pp)<br>PKH2    | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PPB9 (pp)<br>237561.Q5A3P6     | 0.073 | 0.183 | 0.9   |       |       |  | 0.931 | 0.205 |
| 16.23216 | pp | STE11 (pp)<br>CST20  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.P0CY24        |       |       | 0.223 | 0.908 | 0.507 |  | 0.979 | 0.491 |
| 193.5399 | pp | STE11 (pp)<br>RAS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.Q59XU5     | 0.049 |       | 0.052 | 0.57  |       |  | 0.866 | 0.696 |
| 53.04798 | pp | STE11 (pp)<br>OPY2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5A753        |       |       |       |       |       |  | 0.83  | 0.83  |
| 40.29276 | pp | STE11 (pp)<br>CDC24  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PNB5 | 0.044 |       |       | 0.077 |       |  | 0.903 | 0.899 |

|          |    |                      |                      |   |           |    |                                             |       |       |       |       |       |  |       |       |
|----------|----|----------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|--|-------|-------|
| 105.085  | pp | STE11 (pp)<br>CPH1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.P43079     | 0.044 |       |       | 0.306 |       |  | 0.872 | 0.823 |
| 100.7118 | pp | STE11 (pp)<br>MKK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PHG7 | 0.074 | 0.227 | 0.13  | 0.683 |       |  | 0.85  | 0.359 |
| 51.56549 | pp | STE11 (pp)<br>SHO1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5AQ36        |       |       |       | 0.9   | 0.254 |  | 0.995 | 0.949 |
| 58.61422 | pp | STE11 (pp)<br>STE18  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.A0A1D8PQX7    |       |       |       |       |       |  | 0.822 | 0.822 |
| 69.04489 | pp | STE11 (pp)<br>SSK1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5AKU6        |       |       |       | 0.438 |       |  | 0.889 | 0.811 |
| 37.15688 | pp | STE11 (pp)<br>CEK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PT38 | 0.044 | 0.213 |       | 0.384 |       |  | 0.729 | 0.484 |
| 69.04489 | pp | STE11 (pp)<br>SLN1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5A872        |       |       |       | 0.146 |       |  | 0.829 | 0.808 |
| 25.25813 | pp | STE11 (pp)<br>CST5   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PQE8 | 0.046 |       |       | 0.885 |       |  | 0.982 | 0.849 |
| 88.80512 | pp | STE11 (pp)<br>CDC42  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.P0CY33     | 0.052 |       | 0.071 | 0.191 |       |  | 0.963 | 0.954 |
| 59.39209 | pp | STE11 (pp)<br>CLA4   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5APR8        |       | 0.228 | 0.908 | 0.277 |       |  | 0.964 | 0.386 |
| 10.27233 | pp | STE11 (pp)<br>HST7   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.Q5A6T5     | 0.051 | 0.245 | 0.911 | 0.859 |       |  | 0.998 | 0.885 |
| 24.26385 | pp | STE11 (pp)<br>STE4   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.A0A1D8PH43    |       |       |       | 0.191 |       |  | 0.874 | 0.851 |
| 73.48177 | pp | STE11 (pp)<br>PBS2   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PKE2 | 0.051 | 0.223 | 0.911 | 0.459 |       |  | 0.984 | 0.639 |
| 46.35022 | pp | STE11 (pp)<br>STE50  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PJE4 | 0.042 |       | 0.9   | 0.855 |       |  | 0.999 | 0.99  |
| 26.16464 | pp | STE11 (pp)<br>CEK1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.Q5A1D3     | 0.049 | 0.213 |       | 0.505 |       |  | 0.793 | 0.508 |
| 112.2472 | pp | STE11 (pp)<br>MCM1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5AFP3        |       |       | 0.566 | 0.252 |       |  | 0.744 | 0.275 |
| 68.90016 | pp | STE11 (pp)<br>YPD1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q59WC6        |       |       |       |       |       |  | 0.743 | 0.743 |
| 131.3796 | pp | STE11 (pp)<br>STE2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.A0A1D8PTB4    |       |       |       |       |       |  | 0.843 | 0.843 |
| 273.6873 | pp | STE11 (pp)<br>TEC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp) 237561.Q5ANJ4        |       |       |       | 0.122 |       |  | 0.718 | 0.693 |
| 44.4129  | pp | STE11 (pp)<br>FAR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PGY4 (pp)<br>237561.A0A1D8PQH4 | 0.049 |       | 0.125 | 0.146 |       |  | 0.71  | 0.64  |
| 2        | pp | RIM21 (pp)<br>RIM20  | NA                   | 0 | FAL<br>SE | pp | 237561.Q59YK4 (pp) 237561.Q9UW12            |       |       |       | 0.064 |       |  | 0.935 | 0.933 |
| 270      | pp | RIM21 (pp)<br>RIM101 | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59YK4 (pp)<br>237561.Q9UW14         | 0.057 |       |       | 0.12  |       |  | 0.934 | 0.927 |
| 2        | pp | RIM21 (pp)<br>RIM13  | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59YK4 (pp)<br>237561.Q5AK25         | 0.044 |       |       | 0.064 |       |  | 0.936 | 0.935 |
| 2        | pp | RIM21 (pp)<br>RIM8   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q59YK4 (pp) 237561.Q9UW13            |       | 0.443 |       | 0.195 |       |  | 0.974 | 0.948 |
| 2        | pp | COX1 (pp)<br>ATP6    | Physical             | 1 | FAL<br>SE | pp | 237561.P0C8K9 (pp)<br>237561.Q9B8D4         | 0.962 |       |       | 0.105 |       |  | 0.992 | 0.804 |
| 2        | pp | COX1 (pp)<br>NAD5    | NA                   | 0 | FAL<br>SE | pp | 237561.P0C8K9 (pp)<br>237561.Q9B8C9         | 0.922 |       |       | 0.769 |       |  | 0.995 | 0.765 |
| 2        | pp | COX1 (pp)<br>NAD2    | NA                   | 0 | FAL<br>SE | pp | 237561.P0C8K9 (pp)<br>237561.Q9B8D2         | 0.635 |       |       | 0.769 | 0.001 |  | 0.972 | 0.699 |
| 26.93968 | pp | CLA4 (pp)<br>SHO1    | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5APR8 (pp)<br>237561.Q5AQ36         | 0.047 |       | 0.314 | 0.165 |       |  | 0.777 | 0.64  |
| 64.57961 | pp | ALS3 (pp)<br>EFG1    | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59L12 (pp) 237561.Q59X67            |       |       | 0.089 | 0.144 |       |  | 0.886 | 0.866 |
| 348.1252 | pp | ALS3 (pp)<br>RAS1    | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q59XU5         | 0.134 |       | 0.103 | 0.121 |       |  | 0.766 | 0.698 |
| 276      | pp | ALS3 (pp)<br>RBT5    | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q59UT4         | 0.044 |       |       |       |       |  | 0.837 | 0.837 |
| 342.7495 | pp | ALS3 (pp)<br>SOD5    | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q5AD07         | 0.066 |       | 0.048 |       |       |  | 0.707 | 0.697 |

|          |    |                     |                      |   |           |    |                                             |       |  |       |       |       |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|-------|--|-------|-------|
| 93.05328 | pp | ALS3 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q5ANJ4         | 0.067 |  |       | 0.053 |       |  | 0.864 | 0.859 |
| 125.7501 | pp | ALS3 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q5ABE2         | 0.223 |  | 0.068 | 0.086 |       |  | 0.798 | 0.731 |
| 31.28008 | pp | ALS3 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp) 237561.Q5A0E5            |       |  |       | 0.089 | 0.144 |  | 0.739 | 0.693 |
| 43.85066 | pp | ALS3 (pp)<br>RBT1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59L12 (pp) 237561.Q59TP1            | 0.604 |  | 0.071 | 0.248 |       |  | 0.905 | 0.697 |
| 48.18673 | pp | ALS3 (pp)<br>BCR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q59L12 (pp) 237561.Q59U10            | 0.046 |  | 0.089 | 0.144 |       |  | 0.885 | 0.864 |
| 20.187   | pp | ALS3 (pp)<br>UME6   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q59MD2         | 0.245 |  |       | 0.072 |       |  | 0.877 | 0.839 |
| 103.8719 | pp | ALS3 (pp)<br>SAP4   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59L12 (pp)<br>237561.Q5A8N2         | 0.075 |  |       | 0.071 |       |  | 0.872 | 0.864 |
| 47.11445 | pp | SST2 (pp)<br>FAR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PNF8 (pp)<br>237561.A0A1D8PQH4 | 0.292 |  | 0.257 | 0.377 |       |  | 0.85  | 0.597 |
| 48.69679 | pp | SST2 (pp)<br>FUS1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNF8 (pp)<br>237561.Q59TT8     | 0.454 |  |       |       |       |  | 0.856 | 0.749 |
| 48.65414 | pp | SST2 (pp)<br>STE2   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PNF8 (pp)<br>237561.A0A1D8PTB4 | 0.482 |  |       | 0.334 |       |  | 0.944 | 0.853 |
| 79.41665 | pp | SST2 (pp)<br>CEK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNF8 (pp)<br>237561.A0A1D8PT38 | 0.263 |  |       | 0.148 |       |  | 0.769 | 0.662 |
| 42.56239 | pp | BEM1 (pp)<br>CDC42  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.P0CY33     | 0.045 |  | 0.909 | 0.853 |       |  | 0.999 | 0.961 |
| 12.65188 | pp | BEM1 (pp)<br>CLA4   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.Q5APR8     | 0.044 |  | 0.9   | 0.708 |       |  | 0.986 | 0.576 |
| 14.00079 | pp | BEM1 (pp)<br>BEM3   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.A0A1D8PLJ2 | 0.053 |  |       | 0.174 |       |  | 0.753 | 0.711 |
| 30.87175 | pp | BEM1 (pp)<br>FAR1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.A0A1D8PQH4 | 0.053 |  | 0.087 | 0.516 |       |  | 0.814 | 0.609 |
| 18.87973 | pp | BEM1 (pp)<br>CDC24  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.A0A1D8PNB5 | 0.042 |  | 0.9   | 0.989 |       |  | 0.999 | 0.978 |
| 12.44363 | pp | BEM1 (pp)<br>BNI1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.Q5AL52     | 0.05  |  |       | 0.196 |       |  | 0.728 | 0.673 |
| 64.35431 | pp | BEM1 (pp)<br>CST20  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp) 237561.P0CY24        |       |  |       | 0.9   | 0.921 |  | 0.996 | 0.624 |
| 41.94026 | pp | BEM1 (pp)<br>RGA2   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PLB6 (pp)<br>237561.Q5AMQ3     | 0.074 |  |       | 0.324 |       |  | 0.902 | 0.856 |
| 167.4041 | pp | CTA8 (pp)<br>HOG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AQ33 (pp) 237561.Q92207            |       |  |       | 0.393 | 0.15  |  | 0.78  | 0.609 |
| 124.404  | pp | SHO1 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5AQ36 (pp) 237561.Q92207            |       |  |       | 0.38  |       |  | 0.964 | 0.946 |
| 505.9595 | pp | HOG1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.Q92207 (pp)<br>237561.Q9UW14         | 0.074 |  | 0.116 | 0.147 |       |  | 0.803 | 0.752 |
| 52.32678 | pp | CDC42 (pp)<br>HST7  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5A6T5         | 0.043 |  | 0.125 | 0.184 |       |  | 0.822 | 0.771 |
| 45.41039 | pp | CDC42 (pp)<br>CLA4  | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5APR8         | 0.042 |  | 0.951 | 0.764 |       |  | 0.998 | 0.866 |
| 128.3791 | pp | CDC42 (pp)<br>BEM2  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5AGW7         | 0.055 |  | 0.305 | 0.196 |       |  | 0.775 | 0.624 |
| 94.87187 | pp | CDC42 (pp)<br>CEK1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5A1D3         | 0.046 |  | 0.264 | 0.147 |       |  | 0.714 | 0.58  |
| 122.0429 | pp | CDC42 (pp)<br>CDC28 | Genetic              | 2 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.P43063            | 0.077 |  | 0.119 | 0.119 |       |  | 0.787 | 0.739 |
| 173.7618 | pp | CDC42 (pp)<br>PKC1  | Genetic              | 2 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5ANK2         | 0.049 |  | 0.57  | 0.501 |       |  | 0.915 | 0.637 |
| 79.2302  | pp | CDC42 (pp)<br>SHO1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.Q5AQ36            |       |  |       | 0.923 | 0.15  |  | 0.996 | 0.952 |
| 86.05347 | pp | CDC42 (pp)<br>BNR1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.Q5AAF4            |       |  |       | 0.256 | 0.301 |  | 0.88  | 0.789 |
| 37.75102 | pp | CDC42 (pp)<br>BNI1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P0CY33 (pp)<br>237561.Q5AL52         | 0.043 |  | 0.922 | 0.301 |       |  | 0.996 | 0.933 |
| 75.44964 | pp | CDC42 (pp)<br>OPY2  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.Q5A753            |       |  |       | 0.121 | 0.081 |  | 0.849 | 0.828 |

|          |    |                     |                      |   |           |    |                                             |       |  |       |       |  |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|--|--|-------|-------|
| 51.65352 | pp | CDC42 (pp)<br>RGA2  | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.Q5AMQ3            |       |  | 0.997 | 0.993 |  |  | 0.999 | 0.928 |
| 227.4471 | pp | CDC42 (pp)<br>HOG1  | Genetic              | 2 | FAL<br>SE | pp | 237561.P0CY33 (pp) 237561.Q92207            | 0.209 |  | 0.264 | 0.147 |  |  | 0.868 | 0.766 |
| 32.21595 | pp | TUP1 (pp)<br>RFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp)<br>237561.Q5A220         | 0.044 |  | 0.069 | 0.146 |  |  | 0.911 | 0.897 |
| 44.90499 | pp | TUP1 (pp)<br>HWP1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.P46593            |       |  | 0.073 | 0.145 |  |  | 0.855 | 0.832 |
| 173.2127 | pp | TUP1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q59XU5            |       |  | 0.099 | 0.146 |  |  | 0.725 | 0.671 |
| 179.1463 | pp | TUP1 (pp)<br>SKO1   | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q59VR1            |       |  | 0.9   | 0.237 |  |  | 0.976 | 0.72  |
| 63.4553  | pp | TUP1 (pp)<br>CPH1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.P43079            |       |  | 0.098 | 0.145 |  |  | 0.874 | 0.851 |
| 67.20146 | pp | TUP1 (pp)<br>SSN6   | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY34 (pp)<br>237561.Q5ADP3         | 0.096 |  | 0.815 | 0.9   |  |  | 0.999 | 0.987 |
| 17.0517  | pp | TUP1 (pp)<br>EFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp)<br>237561.Q59X67         | 0.043 |  | 0.098 | 0.145 |  |  | 0.929 | 0.916 |
| 61.04462 | pp | TUP1 (pp)<br>BCR1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q59U10            |       |  | 0.098 | 0.145 |  |  | 0.833 | 0.801 |
| 90.97882 | pp | TUP1 (pp)<br>RIM101 | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp)<br>237561.Q9UW14         | 0.096 |  | 0.098 | 0.145 |  |  | 0.751 | 0.685 |
| 49.53581 | pp | TUP1 (pp)<br>ALS3   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q59L12            |       |  | 0.073 | 0.145 |  |  | 0.72  | 0.676 |
| 9.964826 | pp | TUP1 (pp)<br>NRG1   | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q5A0E5            |       |  | 0.098 | 0.145 |  |  | 0.976 | 0.971 |
| 92.04958 | pp | TUP1 (pp)<br>HGC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q5ABE2            |       |  | 0.097 | 0.229 |  |  | 0.709 | 0.616 |
| 42.07553 | pp | TUP1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q5ANJ4            |       |  |       |       |  |  | 0.812 | 0.813 |
| 173.7619 | pp | TUP1 (pp)<br>CZF1   | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY34 (pp) 237561.Q5A0W9            |       |  | 0.11  | 0.153 |  |  | 0.73  | 0.671 |
| 51.4633  | pp | SWI6 (pp)<br>CDC28  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp) 237561.P43063        |       |  | 0.909 | 0.455 |  |  | 0.978 | 0.604 |
| 74.55059 | pp | SWI6 (pp)<br>CLB4   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp)<br>237561.Q5A0A9     | 0.07  |  | 0.119 | 0.611 |  |  | 0.737 | 0.273 |
| 66.1453  | pp | SWI6 (pp)<br>PKC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp) 237561.Q5ANK2        |       |  |       | 0.223 |  |  | 0.704 | 0.635 |
| 118.5218 | pp | SWI6 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp)<br>237561.Q5ABE2     | 0.043 |  | 0.119 | 0.795 |  |  | 0.857 | 0.273 |
| 66.41668 | pp | SWI6 (pp)<br>RLM1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp) 237561.A0A1D8PL95    |       |  |       | 0.164 |  |  | 0.759 | 0.724 |
| 89.88422 | pp | SWI6 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp) 237561.Q5AAG6        |       |  | 0.9   | 0.186 |  |  | 0.944 | 0.368 |
| 33.14509 | pp | SWI6 (pp)<br>CLB2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PED2 (pp)<br>237561.Q5ALY0     | 0.075 |  | 0.119 | 0.688 |  |  | 0.822 | 0.383 |
| 64.8613  | pp | BEM3 (pp)<br>RGA2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PLJ2 (pp)<br>237561.Q5AMQ3     | 0.195 |  | 0.971 | 0.391 |  |  | 0.994 | 0.639 |
| 40.02783 | pp | BEM3 (pp)<br>LRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PLJ2 (pp)<br>237561.A0A1D8PRQ6 | 0.046 |  | 0.262 | 0.071 |  |  | 0.724 | 0.628 |
| 52.9044  | pp | BEM3 (pp)<br>CDC24  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PLJ2 (pp)<br>237561.A0A1D8PNB5 | 0.046 |  | 0.117 | 0.077 |  |  | 0.796 | 0.769 |
| 106.236  | pp | BEM3 (pp)<br>CDC42  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PLJ2 (pp) 237561.P0CY33        |       |  | 0.925 | 0.54  |  |  | 0.992 | 0.811 |
| 28.99288 | pp | UME6 (pp)<br>EFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp) 237561.Q59X67            |       |  | 0.093 | 0.077 |  |  | 0.853 | 0.839 |
| 48.6852  | pp | UME6 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp)<br>237561.Q5ABE2         | 0.506 |  |       | 0.063 |  |  | 0.931 | 0.864 |
| 116.9354 | pp | UME6 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp)<br>237561.Q59XU5         | 0.046 |  | 0.109 |       |  |  | 0.714 | 0.691 |
| 40.84607 | pp | UME6 (pp)<br>BCR1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp)<br>237561.Q59U10         | 0.042 |  | 0.093 | 0.077 |  |  | 0.706 | 0.677 |
| 31.93085 | pp | UME6 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp)<br>237561.Q5ANJ4         | 0.044 |  |       |       |  |  | 0.839 | 0.839 |

|          |    |                     |                      |   |           |    |                                             |       |  |       |       |  |  |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|--|--|-------|-------|
| 37.24512 | pp | UME6 (pp)<br>RBT1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp)<br>237561.Q59TP1         | 0.429 |  |       |       |  |  | 0.735 | 0.555 |
| 14.66378 | pp | UME6 (pp)<br>NRG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q59MD2 (pp) 237561.Q5A0E5            |       |  | 0.093 | 0.077 |  |  | 0.875 | 0.863 |
| 68.43268 | pp | WSC2 (pp)<br>BCK1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PPZ4 (pp)<br>237561.A0A1D8PR87 | 0.046 |  |       | 0.117 |  |  | 0.723 | 0.699 |
| 44.21147 | pp | WSC2 (pp)<br>RHO1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PPZ4 (pp)<br>237561.O42825     | 0.073 |  | 0.046 | 0.118 |  |  | 0.768 | 0.738 |
| 157.4084 | pp | WSC2 (pp)<br>PKC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PPZ4 (pp) 237561.Q5ANK2        |       |  |       | 0.186 |  |  | 0.75  | 0.706 |
| 2        | pp | PHO84 (pp)<br>PHO89 | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PF54 (pp)<br>237561.Q5AMP8     | 0.247 |  |       | 0.306 |  |  | 0.961 | 0.933 |
| 214.3286 | pp | DCK1 (pp)<br>CDC42  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PH11 (pp)<br>237561.P0CY33     | 0.086 |  | 0.351 | 0.507 |  |  | 0.81  | 0.43  |
| 85.13423 | pp | RLM1 (pp)<br>PKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.Q5ANK2     | 0.06  |  |       | 0.072 |  |  | 0.888 | 0.883 |
| 114.4331 | pp | RLM1 (pp)<br>MID1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp) 237561.A0A1D8PNU4    |       |  | 0.349 | 0.487 |  |  | 0.724 | 0.242 |
| 29.56881 | pp | RLM1 (pp)<br>BCK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.A0A1D8PR87 | 0.044 |  |       |       |  |  | 0.84  | 0.84  |
| 65.71295 | pp | RLM1 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.Q59VR1     | 0.044 |  | 0.059 | 0.125 |  |  | 0.761 | 0.732 |
| 89.11796 | pp | RLM1 (pp)<br>RHO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.O42825     | 0.044 |  | 0.262 | 0.042 |  |  | 0.782 | 0.716 |
| 142.7083 | pp | RLM1 (pp)<br>HOG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp) 237561.Q92207        |       |  | 0.532 | 0.487 |  |  | 0.884 | 0.557 |
| 102.8506 | pp | RLM1 (pp)<br>CEK2   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.A0A1D8PT38 | 0.042 |  | 0.349 | 0.487 |  |  | 0.716 | 0.218 |
| 35.2984  | pp | RLM1 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp) 237561.Q5AAG6        |       |  | 0.932 | 0.487 |  |  | 0.989 | 0.732 |
| 149.351  | pp | RLM1 (pp)<br>CRZ1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.Q5A4H5     | 0.046 |  |       | 0.121 |  |  | 0.71  | 0.683 |
| 123.3498 | pp | RLM1 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PL95 (pp)<br>237561.Q5A1D3     | 0.042 |  | 0.349 | 0.487 |  |  | 0.794 | 0.433 |
| 77.97411 | pp | ALS1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A8T4 (pp)<br>237561.Q5ANJ4         | 0.108 |  |       | 0.053 |  |  | 0.831 | 0.817 |
| 230.2479 | pp | IRA2 (pp)<br>RAS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PFE8 (pp)<br>237561.Q59XU5     | 0.042 |  | 0.38  | 0.773 |  |  | 0.958 | 0.729 |
| 7.738095 | pp | IRA2 (pp)<br>BCY1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PFE8 (pp) 237561.Q9HEW1        |       |  |       | 0.093 |  |  | 0.843 | 0.835 |
| 38.01404 | pp | IRA2 (pp)<br>CYR1   | Physical/Geneti<br>c | 1 | FAL<br>SE | pp | 237561.A0A1D8PFE8 (pp)<br>237561.A0A1D8PR83 | 0.196 |  |       | 0.093 |  |  | 0.789 | 0.735 |
| 21.56868 | pp | STE50 (pp)<br>PBS2  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp)<br>237561.A0A1D8PKE2 | 0.056 |  |       | 0.12  |  |  | 0.885 | 0.874 |
| 56.37846 | pp | STE50 (pp)<br>CDC42 | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.P0CY33        |       |  | 0.9   | 0.153 |  |  | 0.996 | 0.965 |
| 29.79399 | pp | STE50 (pp)<br>HST7  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q5A6T5        |       |  |       | 0.12  |  |  | 0.862 | 0.85  |
| 25.37395 | pp | STE50 (pp)<br>CLA4  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q5APR8        |       |  |       | 0.06  |  |  | 0.797 | 0.793 |
| 11.04358 | pp | STE50 (pp)<br>YPD1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp)<br>237561.Q59WC6     | 0.042 |  |       |       |  |  | 0.724 | 0.724 |
| 6.27127  | pp | STE50 (pp)<br>SHO1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q5AQ36        |       |  | 0.9   | 0.196 |  |  | 0.993 | 0.922 |
| 57.58831 | pp | STE50 (pp)<br>BCK1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp)<br>237561.A0A1D8PR87 | 0.045 |  |       | 0.685 |  |  | 0.765 | 0.284 |
| 10.07095 | pp | STE50 (pp)<br>SLN1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q5A872        |       |  |       | 0.145 |  |  | 0.797 | 0.773 |
| 10.07095 | pp | STE50 (pp)<br>SSK1  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q5AKU6        |       |  |       | 0.194 |  |  | 0.779 | 0.738 |
| 98.38865 | pp | STE50 (pp)<br>HOG1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.Q92207        |       |  |       | 0.38  |  |  | 0.838 | 0.75  |
| 8.943493 | pp | STE50 (pp)<br>OPY2  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp)<br>237561.Q5A753     | 0.046 |  | 0.9   | 0.263 |  |  | 0.986 | 0.834 |

|          |    |                     |                      |   |           |    |                                             |       |       |       |       |       |       |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 31.46471 | pp | STE50 (pp)<br>CDC24 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.A0A1D8PNB5    |       |       |       |       |       |       | 0.728 | 0.729 |
| 39.1803  | pp | STE50 (pp)<br>CST20 | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.P0CY24        |       |       |       | 0.046 |       |       | 0.936 | 0.936 |
| 50.83226 | pp | STE50 (pp)<br>SSK2  | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PJE4 (pp) 237561.A0A1D8PM87    |       |       |       | 0.145 |       |       | 0.738 | 0.707 |
| 53.75801 | pp | PHO85 (pp)<br>SWE1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.Q5AP97     | 0.112 | 0.227 | 0.591 | 0.794 |       |       | 0.96  | 0.421 |
| 185.1948 | pp | PHO85 (pp)<br>BMH1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.O42766     | 0.16  |       | 0.572 | 0.153 |       |       | 0.743 | 0.257 |
| 303.776  | pp | PHO85 (pp)<br>HGC1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.Q5ABE2     | 0.38  |       | 0.263 | 0.411 |       |       | 0.788 | 0.307 |
| 57.25175 | pp | PHO85 (pp)<br>CLB4  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.Q5A0A9     | 0.499 |       | 0.528 | 0.691 |       |       | 0.966 | 0.594 |
| 276      | pp | PHO85 (pp)<br>PCL1  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp) 237561.A0A1D8PNP1    |       |       | 0.8   | 0.417 |       |       | 0.986 | 0.892 |
| 276      | pp | PHO85 (pp)<br>HMS1  | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp) 237561.A0A1D8PMZ4    |       |       |       | 0.112 |       |       | 0.843 | 0.831 |
| 361.3452 | pp | PHO85 (pp)<br>HSP90 | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.P46598     | 0.055 |       | 0.056 | 0.252 |       |       | 0.702 | 0.607 |
| 59.5062  | pp | PHO85 (pp)<br>CLB2  | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PDA6 (pp)<br>237561.Q5ALY0     | 0.499 |       | 0.528 | 0.691 | 0.015 |       | 0.965 | 0.587 |
| 56.95181 | pp | TUS1 (pp)<br>RHO1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PDA9 (pp) 237561.O42825        |       |       | 0.917 | 0.392 |       |       | 0.987 | 0.766 |
| 139.5727 | pp | TUS1 (pp)<br>PKC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PDA9 (pp)<br>237561.Q5ANK2     | 0.846 |       |       | 0.118 |       |       | 0.926 | 0.503 |
| 79.47547 | pp | TUS1 (pp)<br>LRG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PDA9 (pp)<br>237561.A0A1D8PRQ6 | 0.043 |       |       | 0.788 |       |       | 0.866 | 0.397 |
| 42.63474 | pp | CST20 (pp)<br>SHO1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp)<br>237561.Q5AQ36         | 0.044 |       | 0.314 | 0.194 |       |       | 0.956 | 0.928 |
| 102.5214 | pp | CST20 (pp)<br>RGA2  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp)<br>237561.Q5AMQ3         | 0.046 |       | 0.971 | 0.803 |       |       | 0.997 | 0.628 |
| 148.8161 | pp | CST20 (pp)<br>CPH1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp) 237561.P43079            |       |       | 0.086 | 0.221 |       |       | 0.82  | 0.768 |
| 184.7101 | pp | CST20 (pp)<br>RAS1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp) 237561.Q59XU5            |       |       | 0.253 | 0.249 |       |       | 0.772 | 0.627 |
| 45.26753 | pp | CST20 (pp)<br>OPY2  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp) 237561.Q5A753            |       |       |       | 0.091 |       |       | 0.803 | 0.793 |
| 63.69019 | pp | CST20 (pp)<br>SSK1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp) 237561.Q5AKU6            |       |       |       | 0.146 |       |       | 0.747 | 0.716 |
| 50.1728  | pp | CST20 (pp)<br>CDC42 | Physical             | 1 | FAL<br>SE | pp | 237561.P0CY24 (pp)<br>237561.P0CY33         | 0.042 |       | 0.951 | 0.956 |       |       | 0.999 | 0.993 |
| 67.00741 | pp | CST20 (pp)<br>YPD1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp) 237561.Q59WC6            |       |       |       |       |       |       | 0.709 | 0.71  |
| 63.69019 | pp | CST20 (pp)<br>SLN1  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp)<br>237561.Q5A872         | 0.058 |       |       | 0.122 |       |       | 0.754 | 0.727 |
| 30.60191 | pp | CST20 (pp)<br>CLA4  | NA                   | 0 | FAL<br>SE | pp | 237561.P0CY24 (pp)<br>237561.Q5APR8         | 0.091 | 0.156 | 0.808 | 0.426 |       |       | 0.921 | 0.212 |
| 2.666667 | pp | MDH1 (pp)<br>MDH1-3 | Physical             | 1 | FAL<br>SE | pp | 237561.P83778 (pp) 237561.Q5A5S6            | 0.281 | 0.069 | 0.9   |       |       |       | 0.927 | 0.046 |
| 2.666667 | pp | MDH1 (pp)<br>ICL1   | NA                   | 0 | FAL<br>SE | pp | 237561.P83778 (pp) 237561.Q59RB8            | 0.445 |       |       | 0.091 |       | 0.071 | 0.842 | 0.703 |
| 2        | pp | MDH1 (pp)<br>MLS1   | NA                   | 0 | FAL<br>SE | pp | 237561.P83778 (pp) 237561.Q5APD2            | 0.407 |       | 0.9   | 0.1   |       |       | 0.976 | 0.614 |
| 25.30342 | pp | HOT1 (pp)<br>MNL1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PCG5 (pp)<br>237561.Q59RR3     | 0.051 |       | 0.098 | 0.145 |       |       | 0.732 | 0.678 |
| 65.4802  | pp | HOT1 (pp)<br>SKO1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PCG5 (pp)<br>237561.Q59VR1     | 0.043 |       |       | 0.122 |       |       | 0.854 | 0.841 |
| 185.2164 | pp | HOT1 (pp)<br>HOG1   | Physical             | 1 | FAL<br>SE | pp | 237561.A0A1D8PCG5 (pp) 237561.Q92207        |       |       | 0.902 | 0.18  |       |       | 0.958 | 0.523 |
| 139.9087 | pp | MID1 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNU4 (pp) 237561.Q59VR1        |       |       | 0.296 | 0.71  |       |       | 0.849 | 0.32  |
| 94.82265 | pp | MID1 (pp)<br>CCH1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PNU4 (pp) 237561.Q5A936        |       | 0.281 |       | 0.251 |       |       | 0.981 | 0.968 |

|          |    |                     |                      |   |           |    |                                             |       |  |       |       |  |       |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|--|-------|-------|-------|
| 104.578  | pp | MID1 (pp)<br>CNB1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PNU4 (pp)<br>237561.A0A1D8PP58 | 0.083 |  |       | 0.181 |  |       | 0.704 | 0.638 |
| 185.898  | pp | HSP90 (pp)<br>MKC1  | NA                   | 0 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q5AAG6            |       |  | 0.118 | 0.167 |  |       | 0.842 | 0.803 |
| 99.99961 | pp | HSP90 (pp)<br>CTA8  | Physical             | 1 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q5AQ33            |       |  | 0.563 | 0.556 |  |       | 0.974 | 0.877 |
| 293.7781 | pp | HSP90 (pp)<br>FUS1  | NA                   | 0 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q59TT8            | 0.453 |  | 0.258 | 0.31  |  |       | 0.718 | 0.113 |
| 165.3274 | pp | HSP90 (pp)<br>RHB1  | NA                   | 0 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q5ANA9            |       |  | 0.411 | 0.638 |  | 0.044 | 0.829 | 0.261 |
| 344.7466 | pp | HSP90 (pp)<br>CRZ1  | Genetic              | 2 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q5A4H5            |       |  | 0.1   | 0.092 |  |       | 0.721 | 0.686 |
| 513.6852 | pp | HSP90 (pp)<br>HSP21 | Physical             | 1 | FAL<br>SE | pp | 237561.P46598 (pp)<br>237561.Q5AHH4         | 0.443 |  |       | 0.042 |  | 0.057 | 0.842 | 0.724 |
| 292.1602 | pp | HSP90 (pp)<br>RAS1  | NA                   | 0 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q59XU5            |       |  | 0.219 | 0.2   |  | 0.044 | 0.794 | 0.697 |
| 463.2464 | pp | HSP90 (pp)<br>HOG1  | Physical/Geneti<br>c | 1 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q92207            |       |  | 0.118 | 0.167 |  |       | 0.735 | 0.669 |
| 255.7507 | pp | HSP90 (pp)<br>MSI3  | Physical             | 1 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q96VB9            | 0.462 |  | 0.238 | 0.409 |  |       | 0.878 | 0.557 |
| 285.7411 | pp | HSP90 (pp)<br>PKC1  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.P46598 (pp) 237561.Q5ANK2            |       |  |       | 0.35  |  |       | 0.817 | 0.73  |
| 207.945  | pp | CAT1 (pp)<br>CAP1   | NA                   | 0 | FAL<br>SE | pp | 237561.O13289 (pp) 237561.Q5AJU7            | 0.043 |  |       | 0.077 |  |       | 0.729 | 0.718 |
| 92.51631 | pp | CAT1 (pp)<br>SOD5   | NA                   | 0 | FAL<br>SE | pp | 237561.O13289 (pp)<br>237561.Q5AD07         | 0.159 |  | 0.5   | 0.146 |  | 0.075 | 0.845 | 0.606 |
| 276      | pp | FAS2 (pp)<br>OLE1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PK65 (pp)<br>237561.Q5A747     | 0.602 |  |       | 0.066 |  |       | 0.883 | 0.711 |
| 104.2443 | pp | HWP1 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5ABE2            | 0.344 |  | 0.068 | 0.086 |  |       | 0.897 | 0.839 |
| 474.1206 | pp | HWP1 (pp)<br>HSP90  | NA                   | 0 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.P46598            |       |  |       | 0.08  |  |       | 0.724 | 0.713 |
| 195.4879 | pp | HWP1 (pp)<br>RAS1   | NA                   | 0 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59XU5            |       |  | 0.103 | 0.121 |  |       | 0.861 | 0.838 |
| 50.19902 | pp | HWP1 (pp)<br>EFG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59X67            |       |  | 0.089 | 0.144 |  |       | 0.887 | 0.867 |
| 67.89101 | pp | HWP1 (pp)<br>RBT1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59TP1            | 0.769 |  | 0.071 | 0.248 |  |       | 0.85  | 0.184 |
| 94.56533 | pp | HWP1 (pp)<br>BCR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59U10            | 0.043 |  | 0.089 | 0.144 |  |       | 0.884 | 0.864 |
| 54.95635 | pp | HWP1 (pp)<br>ALS3   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59L12            | 0.55  |  |       | 0.225 |  |       | 0.971 | 0.924 |
| 115.5524 | pp | HWP1 (pp)<br>RIM101 | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q9UW14            |       |  | 0.089 | 0.144 |  |       | 0.726 | 0.677 |
| 88.8952  | pp | HWP1 (pp)<br>NDT80  | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5ACU9            |       |  |       |       |  |       | 0.736 | 0.736 |
| 67.59    | pp | HWP1 (pp)<br>BRG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q59LY1            | 0.124 |  |       | 0.111 |  |       | 0.727 | 0.678 |
| 20.38007 | pp | HWP1 (pp)<br>NRG1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5A0E5            |       |  | 0.089 | 0.144 |  |       | 0.909 | 0.893 |
| 59.0446  | pp | HWP1 (pp)<br>TEC1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5ANJ4            | 0.05  |  |       | 0.053 |  |       | 0.866 | 0.864 |
| 172.1281 | pp | HWP1 (pp)<br>SAP4   | NA                   | 0 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5A8N2            | 0.175 |  |       | 0.071 |  |       | 0.885 | 0.863 |
| 18.85047 | pp | HWP1 (pp)<br>UME6   | NA                   | 0 | FAL<br>SE | pp | 237561.P46593 (pp)<br>237561.Q59MD2         | 0.4   |  |       | 0.072 |  |       | 0.918 | 0.865 |
| 66.5098  | pp | HWP1 (pp)<br>ALS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P46593 (pp) 237561.Q5A8T4            |       |  |       | 0.225 |  |       | 0.899 | 0.876 |
| 29.33443 | pp | GPR1 (pp)<br>CYR1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PN42 (pp) 237561.A0A1D8PR83    |       |  | 0.9   | 0.071 |  |       | 0.976 | 0.77  |
| 39.23413 | pp | GPR1 (pp)<br>TPK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PN42 (pp)<br>237561.Q5AP71     | 0.052 |  |       | 0.072 |  |       | 0.723 | 0.711 |
| 167.4379 | pp | GPR1 (pp)<br>RAS1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PN42 (pp)<br>237561.Q59XU5     | 0.126 |  | 0.9   | 0.145 |  |       | 0.969 | 0.635 |

|          |    |                     |                      |   |           |    |                                          |       |       |       |       |       |       |       |       |       |
|----------|----|---------------------|----------------------|---|-----------|----|------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 45.53714 | pp | RHO1 (pp)<br>PKC1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.O42825 (pp)<br>237561.Q5ANK2      | 0.046 |       | 0.952 | 0.829 |       |       | 0.999 | 0.947 |       |
| 35.08285 | pp | RHO1 (pp)<br>BNI1   | Physical             | 1 | FAL<br>SE | pp | 237561.O42825 (pp) 237561.Q5AL52         | 0.044 |       | 0.923 | 0.253 |       |       | 0.989 | 0.832 |       |
| 77.71678 | pp | RHO1 (pp)<br>RGA2   | Physical             | 1 | FAL<br>SE | pp | 237561.O42825 (pp) 237561.Q5AMQ3         |       |       | 0.971 | 0.991 |       |       | 0.999 | 0.658 |       |
| 30.34464 | pp | RHO1 (pp)<br>BNR1   | NA                   | 0 | FAL<br>SE | pp | 237561.O42825 (pp) 237561.Q5AAF4         |       |       | 0.923 | 0.253 |       |       | 0.986 | 0.776 |       |
| 111.1081 | pp | RHO1 (pp)<br>MKC1   | NA                   | 0 | FAL<br>SE | pp | 237561.O42825 (pp) 237561.Q5AAG6         |       |       | 0.208 | 0.196 |       |       | 0.828 | 0.753 |       |
| 43.29974 | pp | RHO1 (pp)<br>BEM2   | Genetic              | 2 | FAL<br>SE | pp | 237561.O42825 (pp)<br>237561.Q5AGW7      | 0.044 |       | 0.923 | 0.18  |       |       | 0.972 | 0.604 |       |
| 64.06073 | pp | BNR1 (pp)<br>RGA2   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5AAF4 (pp)<br>237561.Q5AMQ3      | 0.044 |       | 0.625 | 0.18  |       |       | 0.859 | 0.58  |       |
| 13.95602 | pp | BNR1 (pp)<br>BNI1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5AAF4 (pp)<br>237561.Q5AL52      | 0.064 | 0.19  | 0.8   |       |       |       | 0.876 | 0.283 |       |
| 2        | pp | NAD5 (pp)<br>ATP6   | NA                   | 0 | FAL<br>SE | pp | 237561.Q9B8C9 (pp)<br>237561.Q9B8D4      | 0.973 |       |       |       |       | 0.108 | 0.998 | 0.952 |       |
| 2        | pp | NAD5 (pp)<br>NAD2   | NA                   | 0 | FAL<br>SE | pp | 237561.Q9B8C9 (pp)<br>237561.Q9B8D2      | 0.969 | 0.527 | 0.96  | 0.989 |       |       | 0.999 | 0.969 |       |
| 181.5644 | pp | TSC2 (pp)<br>HSP90  | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PMB6 (pp)<br>237561.P46598  | 0.044 |       | 0.567 | 0.72  |       |       | 0.906 | 0.287 |       |
| 87.17271 | pp | TSC2 (pp)<br>BMH1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PMB6 (pp) 237561.O42766     |       |       | 0.622 | 0.48  |       |       | 0.81  | 0.115 |       |
| 16.67587 | pp | TSC2 (pp)<br>RHB1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PMB6 (pp) 237561.Q5ANA9     |       |       | 0.616 | 0.989 |       |       | 0.998 | 0.725 |       |
| 121.3958 | pp | MSB2 (pp)<br>OPY2   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGF8 (pp)<br>237561.Q5A753  | 0.053 |       |       | 0.195 |       |       | 0.703 | 0.643 |       |
| 154.6042 | pp | MSB2 (pp)<br>SHO1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PGF8 (pp)<br>237561.Q5AQ36  | 0.044 |       |       | 0.51  |       |       | 0.879 | 0.763 |       |
| 32.20676 | pp | NRG1 (pp)<br>RFG1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0E5 (pp)<br>237561.Q5A220      | 0.044 |       | 0.086 | 0.181 |       |       | 0.874 | 0.846 |       |
| 69.60577 | pp | NRG1 (pp)<br>HGC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0E5 (pp) 237561.Q5ABE2         |       |       |       | 0.123 |       |       | 0.718 | 0.692 |       |
| 30.47983 | pp | NRG1 (pp)<br>TPK1   | Genetic              | 2 | FAL<br>SE | pp | 237561.Q5A0E5 (pp)<br>237561.Q5AP71      | 0.054 |       | 0.124 | 0.151 |       |       | 0.714 | 0.642 |       |
| 40.81939 | pp | NRG1 (pp)<br>ALS1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0E5 (pp) 237561.Q5A8T4         |       |       | 0.089 | 0.144 |       |       | 0.816 | 0.784 |       |
| 85.39616 | pp | NRG1 (pp)<br>SSN6   | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A0E5 (pp)<br>237561.Q5ADP3      | 0.057 |       | 0.105 | 0.166 |       |       | 0.754 | 0.692 |       |
| 23.47102 | pp | NRG1 (pp)<br>TEC1   | NA                   | 0 | FAL<br>SE | pp | 237561.Q5A0E5 (pp) 237561.Q5ANJ4         |       |       |       | 0.171 |       |       | 0.918 | 0.906 |       |
| 72.47811 | pp | NRG1 (pp)<br>RIM101 | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.Q5A0E5 (pp) 237561.Q9UW14         |       |       |       | 0.271 |       |       | 0.829 | 0.775 |       |
| 2.666667 | pp | ACO1 (pp)<br>MDH1-3 | NA                   | 0 | FAL<br>SE | pp | 237561.P82611 (pp) 237561.Q5A5S6         | 0.392 |       |       | 0.15  |       | 0.059 | 0.719 | 0.492 |       |
| 2        | pp | ACO1 (pp)<br>MLS1   | NA                   | 0 | FAL<br>SE | pp | 237561.P82611 (pp) 237561.Q5APD2         |       | 0.15  |       | 0.071 |       |       | 0.78  | 0.745 |       |
| 2        | pp | ACO1 (pp)<br>MDH1   | Physical             | 1 | FAL<br>SE | pp | 237561.P82611 (pp) 237561.P83778         |       | 0.403 |       | 0.15  |       | 0.059 | 0.884 | 0.787 |       |
| 2.666667 | pp | ACO1 (pp)<br>ICL1   | Genetic              | 2 | FAL<br>SE | pp | 237561.P82611 (pp) 237561.Q59RB8         |       | 0.198 |       | 0.9   | 0.094 |       | 0.071 | 0.985 | 0.819 |
| 108.2662 | pp | FKH2 (pp)<br>MCM1   | Physical             | 1 | FAL<br>SE | pp | 237561.Q5A7S7 (pp)<br>237561.Q5AFP3      | 0.046 |       |       | 0.252 |       |       | 0.871 | 0.835 |       |
| 72.95315 | pp | PTP2 (pp)<br>CEK1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.Q5A1D3     |       |       | 0.923 | 0.261 |       |       | 0.952 | 0.241 |       |
| 20.88627 | pp | PTP2 (pp)<br>YPD1   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.Q59WC6     |       |       |       | 0.09  |       |       | 0.709 | 0.694 |       |
| 74.42837 | pp | PTP2 (pp)<br>HOG1   | Physical,<br>Genetic | 1 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.Q92207     |       |       | 0.923 | 0.594 |       |       | 0.991 | 0.74  |       |
| 23.51183 | pp | PTP2 (pp)<br>SKO1   | NA                   | 0 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp)<br>237561.Q59VR1  | 0.044 |       |       |       |       |       | 0.701 | 0.701 |       |
| 3.536797 | pp | PTP2 (pp)<br>PTP3   | Genetic              | 2 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.A0A1D8PU75 |       | 0.237 | 0.9   |       |       |       | 0.948 | 0.374 |       |

|          |    |                     |         |   |           |    |                                             |       |  |       |       |  |  |       |       |
|----------|----|---------------------|---------|---|-----------|----|---------------------------------------------|-------|--|-------|-------|--|--|-------|-------|
| 74.24105 | pp | PTP2 (pp)<br>MKC1   | NA      | 0 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.Q5AAG6        |       |  | 0.923 | 0.261 |  |  | 0.957 | 0.318 |
| 36.57112 | pp | PTP2 (pp)<br>CEK2   | NA      | 0 | FAL<br>SE | pp | 237561.A0A1D8PLX9 (pp) 237561.A0A1D8PT38    |       |  | 0.923 | 0.261 |  |  | 0.943 | 0.097 |
| 2        | pp | PHO87 (pp)<br>PHO89 | Genetic | 2 | FAL<br>SE | pp | 237561.A0A1D8PDP9 (pp)<br>237561.Q5AMP8     | 0.117 |  |       | 0.127 |  |  | 0.896 | 0.877 |
| 2        | pp | PHO87 (pp)<br>PHO84 | Genetic | 2 | FAL<br>SE | pp | 237561.A0A1D8PDP9 (pp)<br>237561.A0A1D8PF54 | 0.046 |  |       | 0.256 |  |  | 0.81  | 0.755 |