## S2 Table.

16 genes (91.1%) from the input list are present in at least one GO category. The total number of genes present in at least one GO category and identifiable by “high-signal” IDs is 18839.

| select all | gene ontology term                           | category, level | set size | candidates contained | p-value  | q-value |
|------------|---------------------------------------------|-----------------|---------|----------------------|----------|---------|
|            | GO:0006786 nuclease                        | CC 3            | 106     | 2 (1.9%)             | 0.00134  | 0.0121  |
|            | GO:0044815 DNA packaging complex           | CC 2            | 112     | 2 (1.8%)             | 0.0015   | 0.021   |
|            | GO:0034728 nuclease organization           | BP 5            | 173     | 2 (1.2%)             | 0.00355  | 0.0373  |
|            | GO:0032093 protein-DNA complex             | CC 2            | 180     | 2 (1.1%)             | 0.00384  | 0.0269  |
|            | GO:0006333 chromatin assembly or disassembly | BP 5          | 188     | 2 (1.1%)             | 0.00419  | 0.0373  |
|            | GO:0065004 protein-DNA complex assembly    | BP 5            | 224     | 2 (0.9%)             | 0.0059   | 0.0373  |
|            | GO:0071624 protein-DNA complex subunit organization | BP 4       | 251     | 2 (0.8%)             | 0.00736  | 0.243   |
|            | GO:0071103 DNA conformation change         | BP 5            | 287     | 2 (0.7%)             | 0.00954  | 0.0453  |