

over-representation

20

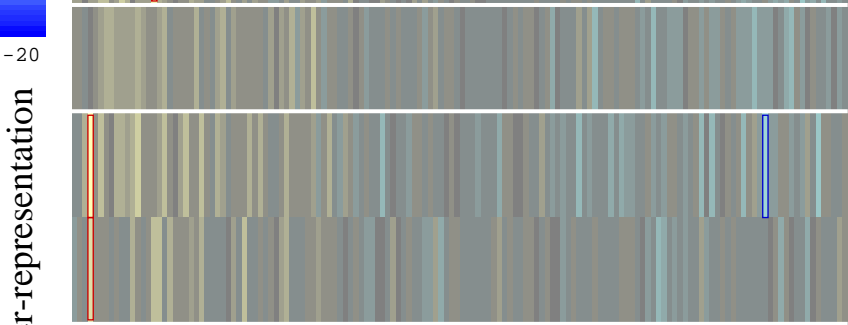
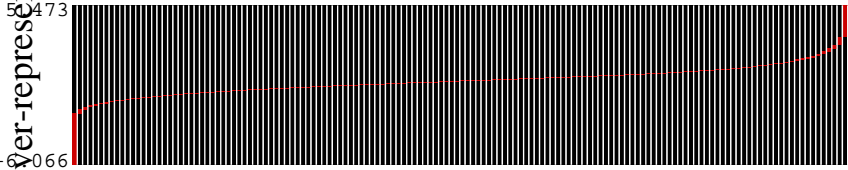
-20

under-representation

translational initiation,  $p < 0.01$

cation channel activity,  $p < 0.01$

inorganic anion transport,  $p < 0.01$   
inorganic anion transport,  $p < 1e-04$



| bits | optimized motif | location | MI (bits) | z-score | robustness | position bias | orientation bias | conservation index | seed | motif name |
|------|-----------------|----------|-----------|---------|------------|---------------|------------------|--------------------|------|------------|
|      | 5'              | 0.024    | 20.2      | 10/10   | -          | -             | 1.00             | AACGCGC            | -    |            |
|      | 3' UTR          | 0.020    | 15.5      | 10/10   | -          | →             | 1.00             | UCCCCC             | -    |            |
|      | 5'              | 0.018    | 12.3      | 10/10   | -          | -             | 1.00             | AATCGAT            | -    |            |
|      | 5'              | 0.015    | 9.4       | 9/10    | -          | -             | 0.94             | CGCGGGA            | -    |            |
|      | 3' UTR          | 0.015    | 8.9       | 8/10    | -          | →             | 0.98             | AUUUAAU            | -    |            |
|      | 5'              | 0.014    | 8.4       | 9/10    | -          | ←             | 0.86             | ATTCGCG            | -    |            |
|      | 5'              | 0.013    | 6.8       | 7/10    | -          | ←             | 0.82             | ACGGTAG            | -    |            |