

| Strategy name      | Reference | Gold-standard preprocessing | Reference preprocessing | Probes in reference | Algorithm      | Mean RMSE | Mean MAE | Mean R^2 |
|--------------------|-----------|-----------------------------|-------------------------|---------------------|----------------|-----------|----------|----------|
| minfi              | minfi     | SQN*                        | SQN*                    | 600                 | Houseman CP/QP | 2.3246    | 2.0137   | 0.9473   |
| dhs_dif1_houseman  | DHS-DMCs  | Noob+BMIQ                   | Default                 | 333                 | Houseman CP/QP | 4.8039    | 3.843    | 0.7783   |
| dhs_NB_houseman    | DHS-DMCs  | Noob+BMIQ                   | Noob+BMIQ               | 333                 | Houseman CP/QP | 4.9398    | 4.1559   | 0.8062   |
| dhs_dif2_houseman  | DHS-DMCs  | Noob+Filtering+BMIQ         | Default                 | 316                 | Houseman CP/QP | 6.1731    | 5.2469   | 0.7779   |
| dhs_NFB_houseman   | DHS-DMCs  | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 316                 | Houseman CP/QP | 6.1194    | 5.3185   | 0.7816   |
| dhs_dif1_cibersort | DHS-DMCs  | Noob+BMIQ                   | Default                 | 333                 | CIBERSORT      | 2.3914    | 1.9502   | 0.8702   |
| dhs_NB_cibersort   | DHS-DMCs  | Noob+BMIQ                   | Noob+BMIQ               | 333                 | CIBERSORT      | 2.8578    | 2.3833   | 0.8453   |
| dhs_dif2_cibersort | DHS-DMCs  | Noob+Filtering+BMIQ         | Default                 | 316                 | CIBERSORT      | 2.9751    | 2.4714   | 0.8552   |
| dhs_NFB_cibersort  | DHS-DMCs  | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 316                 | CIBERSORT      | 3.0684    | 2.5403   | 0.8571   |
| dhs_dif1_rpc       | DHS-DMCs  | Noob+BMIQ                   | Default                 | 333                 | RPC            | 2.0421    | 1.7032   | 0.8873   |
| dhs_NB_rpc         | DHS-DMCs  | Noob+BMIQ                   | Noob+BMIQ               | 333                 | RPC            | 2.5289    | 2.1689   | 0.8705   |
| dhs_dif2_rpc       | DHS-DMCs  | Noob+Filtering+BMIQ         | Default                 | 316                 | RPC            | 2.9653    | 2.3887   | 0.8722   |
| dhs_NFB_rpc        | DHS-DMCs  | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 316                 | RPC            | 3.0755    | 2.5266   | 0.8611   |
| idol_NB_houseman   | IDOL      | Noob+BMIQ                   | Noob+BMIQ               | 300                 | Houseman CP/QP | 2.0347    | 1.6778   | 0.9632   |
| idol_NFB_houseman  | IDOL      | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 281                 | Houseman CP/QP | 1.927     | 1.5498   | 0.9672   |
| idol_NB_cibersort  | IDOL      | Noob+BMIQ                   | Noob+BMIQ               | 300                 | CIBERSORT      | 2.1997    | 1.7958   | 0.9626   |
| idol_NFB_cibersort | IDOL      | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 281                 | CIBERSORT      | 1.9818    | 1.6216   | 0.9704   |
| idol_NB_rpc        | IDOL      | Noob+BMIQ                   | Noob+BMIQ               | 300                 | RPC            | 2.26      | 1.8812   | 0.9679   |
| idol_NFB_rpc       | IDOL      | Noob+Filtering+BMIQ         | Noob+Filtering+BMIQ     | 281                 | RPC            | 2.0122    | 1.6288   | 0.9692   |