



|                          | Number of all genes | Number of genes present in 18 dominant MAGs | Average number of genes present in 18 randomly selected from the remaining MAGs |
|--------------------------|---------------------|---|---|
| metal transport          | 13                  | 10  | 10.14   |
| metal redox              | 12                  | 9   | 8.33  |
| nitrogen metabolism      | 11                  | 9   | 7.29  |
| sulfur metabolism        | 16                  | 13  | 13.51   |
| carbohydrate degradation | 108                 | 37  | 53.72   |