**GSE 48350**

**Evaluation metrics for K=2:**

**Silhouette Score: 0.529464153782623**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 38097.221088820355**

**Dunn Index: 0.00045495123327428144**

**Evaluation metrics for K=3:**

**Silhouette Score: 0.5531035844236213**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 44777.89964667481**

**Dunn Index: 0.001379661811231319**

**Evaluation metrics for K=4:**

**Silhouette Score: 0.4345552910602671**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 33704.16495002251**

**Dunn Index: 0.0006725857109480414**

**GSE 11882**

**Evaluation metrics for K=2:**

**Silhouette Score: 0.52281182777195**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 37165.65550355411**

**Dunn Index: 0.00032284249623023333**

**Evaluation metrics for K=3:**

**Silhouette Score: 0.5537753905984223**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 45385.981905688204**

**Dunn Index: 0.0009419485982140458**

**Evaluation metrics for K=4:**

**Silhouette Score: 0.4541235230931839**

**Adjusted Rand Index: 1.0**

**Homogeneity Score: 1.0**

**Fowlkes-Mallows Index: 1.0**

**Adjusted Mutual Information Score: 1.0**

**Calinski-Harabasz Score: 47101.35344954848**

**Dunn Index: 0.00028255438189425636**