

**Table S4. Results of functional annotation in ‘Q10-22-2’s anthers**

Database	Number	Percentage (%)
Total	100,512	100
Nr	53,313	53.04
Nt	37,871	37.68
Swissprot	36,712	36.52
KEGG	38,994	38.80
COG	18,889	18.79
Interpro	37,833	37.64
GO	22,095	21.98
Overall	56,879	56.59

Overall: the unigenes which were annotated with at least one functional database.