

Tutorial for ‘Cucurbit expression atlas’

This function takes a gene ID from the selected genome and outputs the expression profiles (FPKM values) of the queried gene in all corresponding projects/samples available in the database (**Figure 1**). The output page provides a ‘download’ link for each project that allows users to download files of read processing and alignment statistics, raw counts and expression values (FPKM for each run and average FPKM for each sample). Clicking the ‘Show/hide all expression’ link will show (expand) or hide (collapse) the expression information of the queried gene in samples of all projects (**Figure 2**), while clicking the ‘Show/hide expression’ link under each specific project will show (expand) or hide (collapse) the expression information of the queried gene in samples of the specific project (**Figure 3**).

Expression of CsaV3_3G042380 [Cucumber (Chinese Long) v3]		
		Show/hide all expression
PRJNA376073 : Transcriptome responses to GA3 (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA613788 : Transcriptome response to sugar treatment (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA667293 : Transcriptome profiling of lateral root development regulated by GA3 (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA782544 : Transcriptome responses to ethrel (non-strand-specific)	Download	Show/hide expression
PRJNA316747 : Transcriptomes of cucumber roots inoculated by AMF (<i>Rhizophagus irregularis</i>) under low temperature (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA438923 : Transcriptome responses to chilling stress (non-strand-specific)	Download	Show/hide expression
PRJNA701131 : Transcriptome responses of grafted cucumber to cold stress (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA817708 : Transcriptome responses to cold stress (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA720243 : Transcriptome response of grafted cucumber to drought stress (non-strand-specific; Publication)	Download	Show/hide expression
PRJEB7612 : Transcriptome response to silicon treatment (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA307279 : Transcriptome profiles of grafted plants under Pi stress (strand-specific; Publication)	Download	Show/hide expression
PRJNA523714 : Transcriptome profiling of <i>C. campestris</i> -connected cucumber plant clusters under nitrogen-depleted condition (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA765376 : Transcriptome responses to Sulfur (S) fumigation (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA634519 : Transcriptome response to high temperature stress (non-strand-specific)	Download	Show/hide expression
PRJNA748460 : Transcriptome profiling of male flower development under heat stress (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA380322 : Transcriptome responses to temperature and photoperiod (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA475903 : Transcriptome responses to photoperiod treatment (non-strand-specific; Publication)	Download	Show/hide expression
PRJNA476021 : Transcriptome responses to different ratios of blue and red light (non-strand-specific; Publication)	Download	Show/hide expression

Figure 1

Expression of CsaV3_3G042380 [Cucumber (Chinese Long) v3]				
				Show/hide all expression
PRJNA376073: Transcriptome responses to GA3 (non-strand-specific; Publication)				Download Show/hide expression
Sample ID	Species	Genotype	Description	Expression (FPKM)
SRX2577785	Cucumis sativus	13_3B	Shoot apices without GA3 treatment	34.35
SRX2577783	Cucumis sativus	13_3B	Shoot apices treated with GA3 for 6 h	59.5
SRX2577781	Cucumis sativus	13_3B	Shoot apices treated with GA3 for 12 h	52.34
PRJNA613788: Transcriptome response to sugar treatment (non-strand-specific; Publication)				Download Show/hide expression
Sample ID	Species	Genotype	Description	Expression (FPKM)
SAMN14419958	Cucumis sativus	ZK	Non-pollinated fruit	27.53
SAMN14419952	Cucumis sativus	ZK	Fruit at one day after anthesis treated with fructose	31.31
SAMN14419954	Cucumis sativus	ZK	Fruit at one day after anthesis treated with glucose	29.74
SAMN14419956	Cucumis sativus	ZK	Fruit at one day after anthesis treated with sucrose	31.85
PRJNA667293: Transcriptome profiling of lateral root development regulated by GA3 (non-strand-specific; Publication)				Download Show/hide expression
Sample ID	Species	Genotype	Description	Expression (FPKM)
SAMN16365205	Cucumis sativus	Daqingba	Roots of seedlings with mock treatment at 2 days after germination	14.85
SAMN16365207	Cucumis sativus	Daqingba	Roots of seedlings treated with 50 uM GA3 at 2 days after germination	16.59

Figure 2

Expression of CsaV3_3G042380 [Cucumber (Chinese Long) v3]				
				Show/hide all expression
PRJNA376073: Transcriptome responses to GA3 (non-strand-specific; Publication)				Download Show/hide expression
PRJNA613788: Transcriptome response to sugar treatment (non-strand-specific; Publication)				Download Show/hide expression
Sample ID	Species	Genotype	Description	Expression (FPKM)
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PRJNA667293: Transcriptome profiling of lateral root development regulated by GA3 (non-strand-specific; Publication)				Download Show/hide expression

Figure 3