

**Expression map of a complete set of gustatory receptor genes in chemosensory
organs of *Bombyx mori***

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Supplementary information, Document S1

Document S1. Improvement of *BmGr65* structure and annotation.

Supplementary information, Document S2

Document S2. Chromosome mapping of *BmGr41*, *BmGr42* and *BmGr43*.

Supplementary information, Document S2

Supplementary information, Figure S1

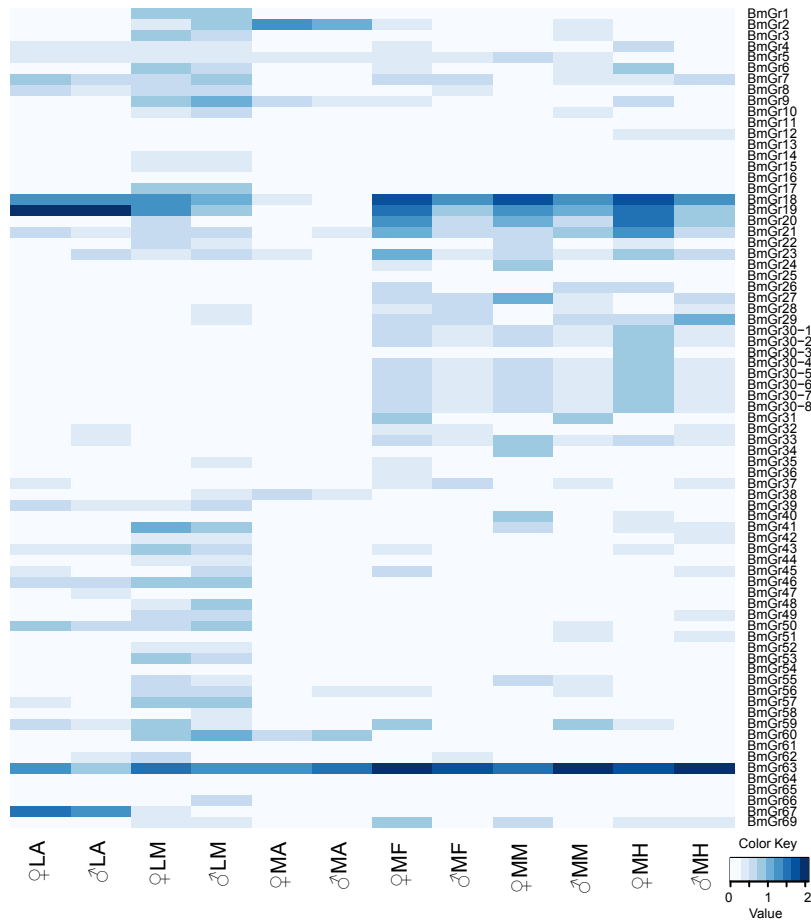


Figure S1. Expression profile of *BmGrs* in the chemosensory organs of silkworm larvae and adult moths. MA, moth antenna; LA, larval antenna; LM, larval maxilla; MF, moth foreleg; MM, moth midleg; MH, moth hindleg. All data were evaluated and calculated by RSEM software and RPKM method.

Supplementary information, Figure S2



Figure S2. Comparison of expression of *BmGr*s in larval thoracic legs and moth legs. Data for adults is the same as in Figure 3. LFT, larval first thoracic legs; LST, larval second thoracic legs; LTT, larval third thoracic legs. MF, moth foreleg; MM, moth midleg; MH, moth hindleg.

Supplementary information, Figure S3

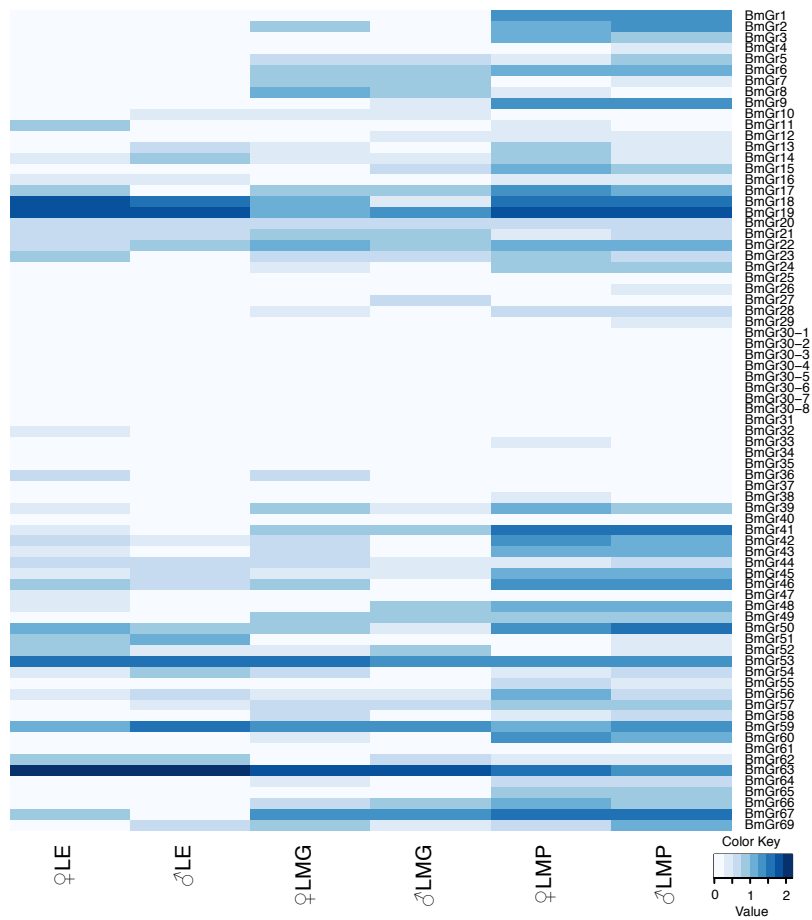


Figure S3. *BmGr* expression patterns in silkworm larval mouthparts. LMP, larval maxillary palps; LMG, larval maxillary galea; LE, larval epipharynx.

Supplementary information, Table S1. List of *BmGr* gene information.

Table S1 is provided as single pdf format.

Supplementary information, Table S2. Primer sets used for identifying *BmGr* genes in BACs.

Gene	RT-PCR primer sequence (5' to 3')	Length of PCR product (bp)
BmGr65	Exon2-F-TGGCTACTGCGTATGCGTTT	431
	Exon3-R- CTGCGCTAAAACAATTTGTCTGA	
	Exon3-F- CGAAGACATCAGACAAATTGTTTTA	1109
	Exon4-R- TAAGGATAAATGTAAAATCAACTGTA	
BmGr41	F- CTGTCGCAAACAACCTGGGAA	812
	R- CAGAGAAGGATAATGGGAGGA	
BmGr42	F- TCAATCTTTATCTTTCAACGCAT	377
	R- AAACCACAAATCATCAAAGCAAT	
BmGr43	F- TTTTAGATGAGGACTTCGTTCG	675
	R- CACCAATCCAAACAAAGTAACC	
BmGr46	F- TTTTAGATGAGGACTTCGTTCG	441
	R- CAACAATCCAAATAAAGTAACCA	
	2386F- GACTTCGTTCGGGTTTTTCGT	
	exon3R- CGCTTAGTCTCTCGTATTTCTCTGA	