

ST8. Annotation of *L. stagnalis* GPCRs found organized in clusters in the genome assembly. Groups of tandem genes (clusters) are named as a function of their size (4 to 26 genes) and further numbered from 1 to n (e.g., C16-2 is the 2nd cluster of 16 genes, as based on gene prediction identifier).

"a" or "b" indicates a subdivision of the group into two different GPCRclasses (e.g., C06-6a: class_A and C06-6b: class_C).

Cluster	annotation	6 to 7 TMHs	< 6 TMHs	alternative or additional annotations
C26-2	7tmA_FMRFamide_R-like	13	13 (0 to 5 TMHs)	PHA02638;7tmA_TACR_family
C26-1	7tmA_FMRFamide_R-like	23	3 (2;2;4 TMHs)	
C16-2	7tmA_FMRFamide_R-like	15	1 (4 TMHs)	
C16-1	7tmA_FMRFamide_R-like	15	1 (5 TMHs)	
C14	7tmA_CCKR-like	2	12 (2 to 4 TMHs)	PHA02638;7tmA_mAChR_DM1-like;7tmA_NTSR-like;7tmA_FMRFamide_R-like
C13	7tmA_FMRFamide_R-like	12	1 (3 TMHs)	MECDP_synthase
C11	7tmA_FMRFamide_R-like	10	1 (3 TMHs)	7TM_GPCR_Srw
C09-5	7tmA_FMRFamide_R-like	8	1 (5TMHs)	7TM_GPCR_Srw
C09-4	7tmA_amine_R-like	9	0	PHA03087;PHA02638
C09-3	7tmA_FMRFamide_R-like	6	3 (2;2;4 TMHs)	
C09-2	7tmA_TAARs	7	2 (2;5 TMHs)	7tmA_FMRFamide_R-like; PHA03087
C09-1	7tmA_FMRFamide_R-like	7	2 (5 TMHs)	
		0 (but see		PHA03087;PHA02638;7tmA_NTSR-like;7tmA_ETH-R;7tmA_BNGR-A34-
C08-5	7tm_classA_rhodopsin-like	colocated transcript)	7 (2 to 4 TMHs)	like;7tmA_SSTR3;7tmA_NPYR-like;7tmA_NPFFR
C08-4	7tmA_FMRFamide_R-like	7	1 (5TMHs)	7TM_GPCR_Srw
C08-4	7tmA_amine_R-like	6	2 (3;5 TMHs)	PHA03087;PHA02638;7tmA_TAARs
C08-3	7tmA_FMRFamide_R-like	7	1 (4 TMHs)	
C08-2	7tmA_FMRFamide_R-like	7	1 (5 TMHs)	7tmF_FZD1_2_7-like;7TM_GPCR_Srw
C08-1	7tmA_FMRFamide_R-like	5	3 (4 to 5 TMHs)	PHA02638;7TM_GPCR_Srx;7TM_GPCR_Srw;
C06-8	7tm_classA_rhodopsin-like	4	2 (5TMHs)	PHA03087
C06-7	7tmA_FMRFamide_R-like	6	0	PHA02638;7TM_GPCR_Srx
C06-6b	7tm_classC_mGluR-like	1	1 (3 TMHs)	NCD3G;PBP1_mGluR
C06-6a	7tmA_FMRFamide_R-like	3	1 (4TMHs)	
C06-5	7tm_classC_mGluR-like	2	4 (3 TMHs)	NCD3G;PBP1_mGluR
C06-4	7tmA_FMRFamide_R-like	6	0	PHA03087;7TM_GPCR_Srw
C06-3	7tmA_FMRFamide_R-like	5	1 (2TMHs)	7TM_GPCR_Srw
C06-2	7tmA_AstA_R_insect	4	2 (2;5 TMHs)	PHA03087;7tmA_NPFFR;7tmA_CCKR-like
C06-1	7tmA_FMRFamide_R-like	2	4(2 to 3 TMHs)	7TM_GPCR_Srw;PHA02638
C05-6	7tm_classA_rhodopsin-like	2	3 (5 TMHs)	PHA03087; 7tmA_FMRFamide_R-like
C05-5	7tmA_amine_R-like	2	3 (4 to 5 TMHs)	PHA03087; 7tmA_FMRFamide_R-like;7TM_GPCR_Srw
C05-4	7tmA_ETH-R	0	5 (1 to 5TMHs)	7tmA_capaR; PHA03087
C05-3	7tmA_FMRFamide_R-like	5	0	PHA03087
C05-2b	7tm_classA_rhodopsin-like	0	1 (4TMHs)	
C05-2a	7tmB3_Methuselah-like	0	4 (3 to 4 TMHs)	
C05-1b	7tm_classC_mGluR-like	1	0	PBP1_mGluR_groupII
C05-1a	7tmA_FMRFamide_R-like	4	0	7TM_GPCR_Srx
C04-9b	7tmB2_Adhesion	1	1 (5TMHs)	GPS
C04-9a	7tmA_FMRFamide_R-like	1	1 (5TMHs)	7tmA_capaR;PHA03087
C04-8	7tmA_FMRFamide_R-like	4	0	7TM_GPCR_Srw
C04-7	7tmA_FMRFamide_R-like	4	0	7TM_GPCR_Srw
C04-6	7tmA_Adenosine_R	4	0	PHA03087
C04-5	7tmA_FMRFamide_R-like	3	1 (4TMHs)	PHA02638;7TM_GPCR_Srw
C04-4	7tmA_FMRFamide_R-like	3	1 (4TMHs)	PHA02638;PHA03087
C04-3	7tmA_FMRFamide_R-like	3	1 (4TMHs)	7TM_GPCR_Srx
C04-2	7tmA_FMRFamide_R-like	1	3 (4 to 5 TMHs)	
C04-14	7tm_classA_rhodopsin-like	2	2 (2;5 TMHs)	7tmA_FMRFamide_R-like; PHA03087
C04-13	7tmA_FMRFamide_R-like	2	2 (2;3 TMHs)	7tmB3_Methuselah-like;PHA02638;7tmA_CCKR-like;
C04-12	7tmA_FMRFamide_R-like	4	0	PHA02638;7TM_GPCR_Srw
C04-11	7tm_classA_rhodopsin-like	4	0	
C04-10	7tmA_FMRFamide_R-like	4	0	7TM_GPCR_Srw
C04-1	7tmA_amine_R-like	4	0	PHA03087; 7tm_classA_rhodopsin-like