

ST1. Annotation of *L. stagnalis* predicted protein sequences: Receptor Tyrosine Kinases (RTK). See HUGO gene nomenclature and conserved domain database for domain definition.

order	RTK_type	Lstagnalis GP	present domain	absent domain
?	?	GSLYST00007363001	LRR-RI, Ephrin receptor_like (partial), TNFRSF(partial), PTKc	FNIII, FNIII, SAM
?	?	GSLYST00000618001	FNIII, PTKc	
type01	Type I RTKs: ErbB (epidermal growth factor)	GSLYST00018222001	receptor L (partial), Furin-like (cystein rich), receptor L, GFR, GFR, PTKc-EGFR	
type02	Type II RTKs: Insulin	GSLYST00008439001	receptor L, Furin-like (cystein rich), receptor L, FNIII, FNIII, PTKc-Ins-like	
type02	Type II RTKs: Insulin	GSLYST00021192001	receptor L, Furin-like (cystein rich), receptor L, FNIII, FNIII, PTKc-Ins-like	
type03	Type III RTKs: PDGFR, CSFR, Kit, FLT3	no match		
type04	Type IV RTKs: VEGF (vascular endothelial growth factor)	GSLYST00004989001	Ig, Ig, Ig, Ig, PTKc_VEGFR	
type05	Type V RTKs: FGF (fibroblast growth factor)	GSLYST00001552001	Ig, Ig2-FGFR, Ig3-FGFR-2, PTKc-FGFR	
type05	Type V RTKs: FGF (fibroblast growth factor)	GSLYST00017427001	Ig, Ig3-FGFR, PTKc	
type05	Type V RTKs: FGF (fibroblast growth factor)	GSLYST00016773001+16774001	Ig, PTKc + Ig, Ig2_Kirrel3, Ig2_Robo, Ig, Ig_Kirrel3	
type06	Type VI RTKs: PTK7/CCK4	GSLYST00016093001	Ig3_Robo, Ig, Ig2_Robo, Ig, Ig3, Ig3, PTK_CCK4	
type07	Type VII RTKs: Neurotrophin receptor/Trk	GSLYST00007831001	LRR-RI, PTKc-TRK	Ig, Ig,
type07	Type VII RTKs: Neurotrophin receptor/Trk	GSLYST00008464001	PTKc_TRK, TOMM_kin_cyc	LRR, Ig, Ig
type08	Type VIII RTKs: ROR	GSLYST00009936001	IG, FZ (=CRDTR), Kringle, PTKc-ROR	
type09	Type IX RTKs: MuSK	GSLYST00008324001+8323001	FZ (8324001); Kringle (8323001), PTKc-MUSK (8323001)	Ig
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00000013001	LAM-EGF x5, IPT x2, PTKc	SEMA, Psi
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003015001	Sema_plexin-like, IPT, IPT, IPT, PTKc	Psi
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003016001_17001_18001_plus_addi	tional_colocalized_transcripts	
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003019001	Sema_plexin-like, Psi, IPT (full), IPT (partial), PTKc	
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003019001	IPT, IPT (partial), PTKc	
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003020001	IPT, IPT, IPT (partial), PTKc	
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00003021001	IPT (partial) x3	PTKc
type10	Type X RTKs: HGF (hepatocyte growth factor)	GSLYST00009000001to9004001	SEMA, Psi, IPT, IPT (partial), PTKc_Met_Ron	
type11	Type XI RTKs: TAM (TYRO3-, AXL- and MER-TK)	no match		
type12	Type XII RTKs: TIE family of angiopoietin receptors	GSLYST00011095001	Ig, Ig, EGF (partial), EGF, PTKc(partial), PTKc(partial)	Ig, FNIII, FNIII, FNIII
type13	Type XIII RTKs: Ephrin	GSLYST00016855001	EphrinLBD, FNIII, FNIII, FNIII, PTKc-EPH, SAM	
type14	Type XIV RTKs: RET	GSLYST00012958001+12959001	PTKc_RET	cadherin, cyst-rich
type15	Type XV RTKs: RYK	GSLYST00007181001_extended	PTKc-RYK, WIF	
type16	Type XVI RTKs: DDR (collagen receptor) family	GSLYST00008779001	Discoidin, PTKc-DDR	Discoidin
type17	Type XVII RTKs: ROS receptors	GSLYST00009260001	FNIII, FNIII, FNIII, FNIII, PTKc_Ros	YWTD propeller
type18	Type XVIII RTKs: LMR	GSLYST00014169001	PTKc, TOMM_kin_cyc	
type19	Type XIX RTKs: Leukocyte tyrosine kinase (LTK)	GSLYST00020441001	PTKc_ALK_LTK	Mam, Lda
type20	Type XX RTKs: STYK1	GSLYST00018463001	PTKc_STYK	