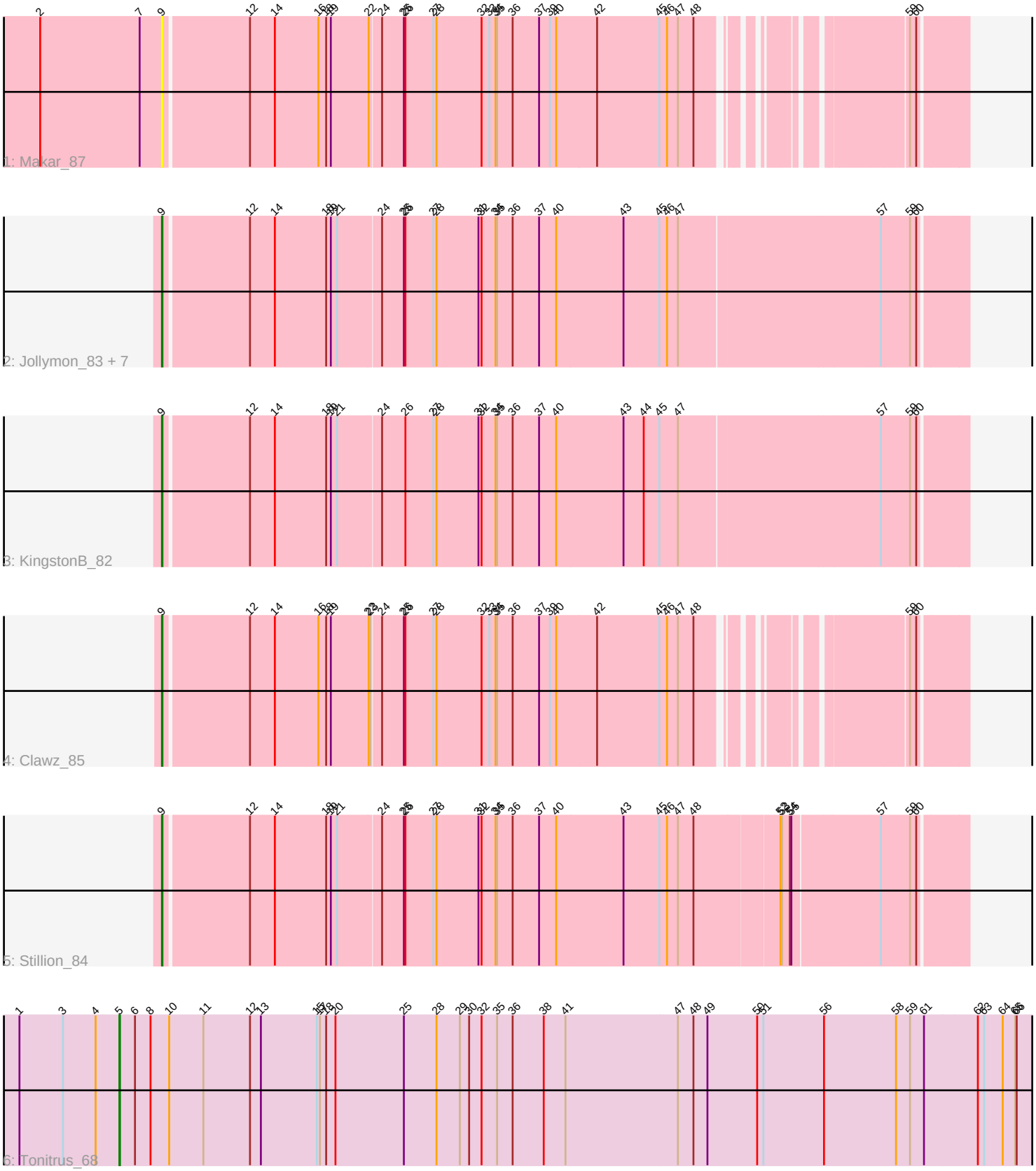
Pham 342712


1: Makar_87
2: Jollymon_83 + 7
3: KingstonB_82
4: Clawz_85
5: Stillion_84
6: Tonitrus_68

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 342712 Report

This analysis was run 11/14/26 on database version 672.

Pham number 342712 has 13 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Makar_87
• Track 2 : Jollymon_83, Amo99_86, Purplicious_83, DonTron_83, Grumio_84, Sting_82, ColdSoup_86, Soos_79
• Track 3 : KingstonB_82
• Track 4 : Clawz_85
• Track 5 : Stillion_84
• Track 6 : Tonitrus_68

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 9, it was called in 7 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amo99_86, Clawz_85, ColdSoup_86, DonTron_83, Grumio_84, Jollymon_83, KingstonB_82, Makar_87, Purplicious_83, Soos_79, Stillion_84, Sting_82,

Genes that have the "Most Annotated" start but do not call it:
•

Genes that do not have the "Most Annotated" start:
• Tonitrus_68,

Summary by start number:

Start 5:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tonitrus_68 (singleton),

Start 9:
• Found in 12 of 13 (92.3%) of genes in pham
• Manual Annotations of this start: 7 of 8

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amo99_86 (CP), Clawz_85 (CP), ColdSoup_86 (CP), DonTron_83 (CP), Grumio_84 (CP), Jollymon_83 (CP), KingstonB_82 (CP), Makar_87 (CP), Purplicious_83 (CP), Soos_79 (CP), Stillion_84 (CP), Sting_82 (CP),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, CP,

Info for manual annotations of cluster CP:
•Start number 9 was manually annotated 7 times for cluster CP.

Gene Information:

Gene: Amo99_86 Start: 53844, Stop: 55349, Start Num: 9
Candidate Starts for Amo99_86:
(Start: 9 @53844 has 7 MA's), (12, 54003), (14, 54051), (18, 54150), (19, 54159), (21, 54171), (24, 54252), (25, 54294), (26, 54297), (27, 54351), (28, 54357), (31, 54435), (32, 54441), (34, 54468), (35, 54471), (36, 54501), (37, 54552), (40, 54585), (43, 54714), (45, 54783), (46, 54798), (47, 54819), (57, 55194), (59, 55248), (60, 55260),

Gene: Clawz_85 Start: 54226, Stop: 55632, Start Num: 9
Candidate Starts for Clawz_85:
(Start: 9 @54226 has 7 MA's), (12, 54385), (14, 54433), (16, 54517), (18, 54532), (19, 54541), (22, 54613), (23, 54616), (24, 54634), (25, 54676), (26, 54679), (27, 54733), (28, 54739), (32, 54823), (33, 54838), (34, 54850), (35, 54853), (36, 54883), (37, 54934), (39, 54955), (40, 54967), (42, 55045), (45, 55165), (46, 55180), (47, 55201), (48, 55231), (59, 55531), (60, 55543),

Gene: ColdSoup_86 Start: 53925, Stop: 55430, Start Num: 9
Candidate Starts for ColdSoup_86:
(Start: 9 @53925 has 7 MA's), (12, 54084), (14, 54132), (18, 54231), (19, 54240), (21, 54252), (24, 54333), (25, 54375), (26, 54378), (27, 54432), (28, 54438), (31, 54516), (32, 54522), (34, 54549), (35, 54552), (36, 54582), (37, 54633), (40, 54666), (43, 54795), (45, 54864), (46, 54879), (47, 54900), (57, 55275), (59, 55329), (60, 55341),

Gene: DonTron_83 Start: 53803, Stop: 55308, Start Num: 9
Candidate Starts for DonTron_83:
(Start: 9 @53803 has 7 MA's), (12, 53962), (14, 54010), (18, 54109), (19, 54118), (21, 54130), (24, 54211), (25, 54253), (26, 54256), (27, 54310), (28, 54316), (31, 54394), (32, 54400), (34, 54427), (35, 54430), (36, 54460), (37, 54511), (40, 54544), (43, 54673), (45, 54742), (46, 54757), (47, 54778), (57, 55153), (59, 55207), (60, 55219),

Gene: Grumio_84 Start: 53403, Stop: 54908, Start Num: 9
Candidate Starts for Grumio_84:
(Start: 9 @53403 has 7 MA's), (12, 53562), (14, 53610), (18, 53709), (19, 53718), (21, 53730), (24, 53811), (25, 53853), (26, 53856), (27, 53910), (28, 53916), (31, 53994), (32, 54000), (34, 54027), (35, 54030), (36, 54060), (37, 54111), (40, 54144), (43, 54273), (45, 54342), (46, 54357), (47, 54378), (57, 54753), (59, 54807), (60, 54819),

Gene: Jollymon_83 Start: 53925, Stop: 55430, Start Num: 9

Candidate Starts for Jollymon_83:
(Start: 9 @53925 has 7 MA's), (12, 54084), (14, 54132), (18, 54231), (19, 54240), (21, 54252), (24, 54333), (25, 54375), (26, 54378), (27, 54432), (28, 54438), (31, 54516), (32, 54522), (34, 54549), (35, 54552), (36, 54582), (37, 54633), (40, 54666), (43, 54795), (45, 54864), (46, 54879), (47, 54900), (57, 55275), (59, 55329), (60, 55341),

Gene: KingstonB_82 Start: 53336, Stop: 54841, Start Num: 9
Candidate Starts for KingstonB_82:
(Start: 9 @53336 has 7 MA's), (12, 53495), (14, 53543), (18, 53642), (19, 53651), (21, 53663), (24, 53744), (26, 53789), (27, 53843), (28, 53849), (31, 53927), (32, 53933), (34, 53960), (35, 53963), (36, 53993), (37, 54044), (40, 54077), (43, 54206), (44, 54245), (45, 54275), (47, 54311), (57, 54686), (59, 54740), (60, 54752),

Gene: Makar_87 Start: 53958, Stop: 55364, Start Num: 9
Candidate Starts for Makar_87:
(2, 53724), (7, 53916), (Start: 9 @53958 has 7 MA's), (12, 54117), (14, 54165), (16, 54249), (18, 54264), (19, 54273), (22, 54345), (24, 54366), (25, 54408), (26, 54411), (27, 54465), (28, 54471), (32, 54555), (33, 54570), (34, 54582), (35, 54585), (36, 54615), (37, 54666), (39, 54687), (40, 54699), (42, 54777), (45, 54897), (46, 54912), (47, 54933), (48, 54963), (59, 55263), (60, 55275),

Gene: Purplicious_83 Start: 53168, Stop: 54673, Start Num: 9
Candidate Starts for Purplicious_83:
(Start: 9 @53168 has 7 MA's), (12, 53327), (14, 53375), (18, 53474), (19, 53483), (21, 53495), (24, 53576), (25, 53618), (26, 53621), (27, 53675), (28, 53681), (31, 53759), (32, 53765), (34, 53792), (35, 53795), (36, 53825), (37, 53876), (40, 53909), (43, 54038), (45, 54107), (46, 54122), (47, 54143), (57, 54518), (59, 54572), (60, 54584),

Gene: Soos_79 Start: 53129, Stop: 54634, Start Num: 9
Candidate Starts for Soos_79:
(Start: 9 @53129 has 7 MA's), (12, 53288), (14, 53336), (18, 53435), (19, 53444), (21, 53456), (24, 53537), (25, 53579), (26, 53582), (27, 53636), (28, 53642), (31, 53720), (32, 53726), (34, 53753), (35, 53756), (36, 53786), (37, 53837), (40, 53870), (43, 53999), (45, 54068), (46, 54083), (47, 54104), (57, 54479), (59, 54533), (60, 54545),

Gene: Stillion_84 Start: 54500, Stop: 55999, Start Num: 9
Candidate Starts for Stillion_84:
(Start: 9 @54500 has 7 MA's), (12, 54659), (14, 54707), (18, 54806), (19, 54815), (21, 54827), (24, 54908), (25, 54950), (26, 54953), (27, 55007), (28, 55013), (31, 55091), (32, 55097), (34, 55124), (35, 55127), (36, 55157), (37, 55208), (40, 55241), (43, 55370), (45, 55439), (46, 55454), (47, 55475), (48, 55505), (52, 55664), (53, 55667), (54, 55682), (55, 55685), (57, 55844), (59, 55898), (60, 55910),

Gene: Sting_82 Start: 53568, Stop: 55073, Start Num: 9
Candidate Starts for Sting_82:
(Start: 9 @53568 has 7 MA's), (12, 53727), (14, 53775), (18, 53874), (19, 53883), (21, 53895), (24, 53976), (25, 54018), (26, 54021), (27, 54075), (28, 54081), (31, 54159), (32, 54165), (34, 54192), (35, 54195), (36, 54225), (37, 54276), (40, 54309), (43, 54438), (45, 54507), (46, 54522), (47, 54543), (57, 54918), (59, 54972), (60, 54984),

Gene: Tonitrus_68 Start: 49840, Stop: 51597, Start Num: 5
Candidate Starts for Tonitrus_68:
(1, 49648), (3, 49732), (4, 49795), (Start: 5 @49840 has 1 MA's), (6, 49870), (8, 49900), (10, 49936), (11, 50002), (12, 50092), (13, 50113), (15, 50218), (17, 50224), (18, 50236), (20, 50254), (25, 50386), (28, 50449), (29, 50494), (30, 50512), (32, 50536), (35, 50566), (36, 50596), (38, 50656), (41, 50698),

(47, 50911), (48, 50941), (49, 50968), (50, 51061), (51, 51073), (56, 51190), (58, 51328), (59, 51355), (61, 51382), (62, 51484), (63, 51496), (64, 51532), (65, 51556), (66, 51559),