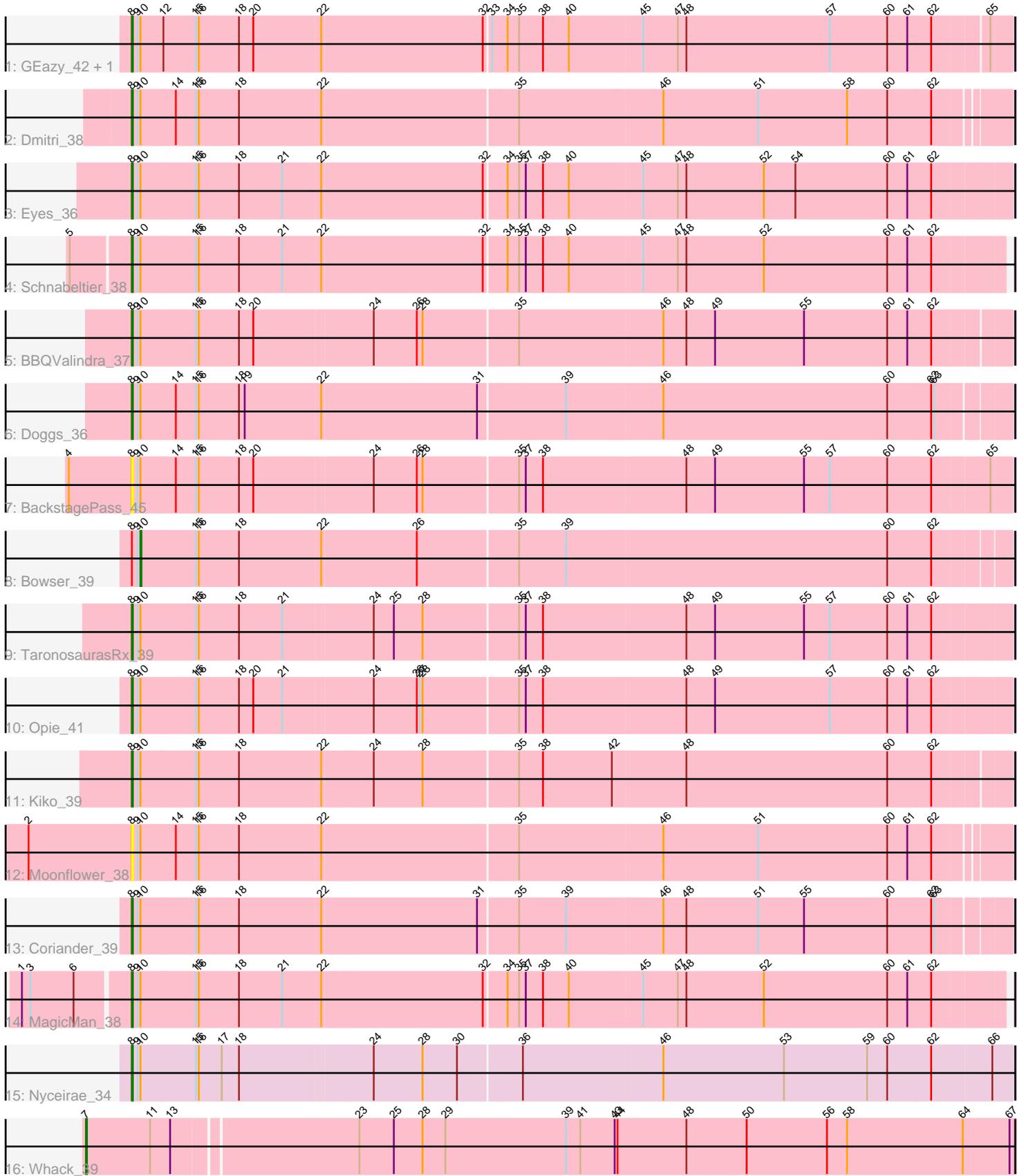Pham 284249

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 284249 Report

This analysis was run 02/23/26 on database version 636.

Pham number 284249 has 17 members, 2 are drafts.

Phages represented in each track:
• Track 1 : GEazy_42, HannahD_40
• Track 2 : Dmitri_38
• Track 3 : Eyes_36
• Track 4 : Schnabeltier_38
• Track 5 : BBQValindra_37
• Track 6 : Doggs_36
• Track 7 : BackstagePass_45
• Track 8 : Bowser_39
• Track 9 : TaronosaurasRx_39
• Track 10 : Opie_41
• Track 11 : Kiko_39
• Track 12 : Moonflower_38
• Track 13 : Coriander_39
• Track 14 : MagicMan_38
• Track 15 : Nyceirae_34
• Track 16 : Whack_39

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

The start number called the most often in the published annotations is 8, it was called in 13 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BBQValindra_37, BackstagePass_45, Coriander_39, Dmitri_38, Doggs_36, Eyes_36, GEazy_42, HannahD_40, Kiko_39, MagicMan_38, Moonflower_38, Nyceirae_34, Opie_41, Schnabeltier_38, TaronosaurasRx_39,

Genes that have the "Most Annotated" start but do not call it:
• Bowser_39,

Genes that do not have the "Most Annotated" start:
• Whack_39,

Summary by start number:

Start 7:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Whack_39 (singleton),

Start 8:
• Found in 16 of 17 (94.1%) of genes in pham
• Manual Annotations of this start: 13 of 15
• Called 93.8% of time when present
• Phage (with cluster) where this start called: BBQValindra_37 (DB), BackstagePass_45 (DB), Coriander_39 (DB), Dmitri_38 (DB), Doggs_36 (DB), Eyes_36 (DB), GEazy_42 (DB), HannahD_40 (DB), Kiko_39 (DB), MagicMan_38 (DB), Moonflower_38 (DB), Nyceirae_34 (DT), Opie_41 (DB), Schnabeltier_38 (DB), TaronosaurasRx_39 (DB),

Start 10:
• Found in 16 of 17 (94.1%) of genes in pham
• Manual Annotations of this start: 1 of 15
• Called 6.2% of time when present
• Phage (with cluster) where this start called: Bowser_39 (DB),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, DB, DT,

Info for manual annotations of cluster DB:
•Start number 8 was manually annotated 12 times for cluster DB.
•Start number 10 was manually annotated 1 time for cluster DB.

Info for manual annotations of cluster DT:
•Start number 8 was manually annotated 1 time for cluster DT.

Gene Information:
Gene: BBQValindra_37 Start: 32011, Stop: 31118, Start Num: 8
Candidate Starts for BBQValindra_37:
(Start: 8 @32011 has 13 MA's), (9, 32005), (Start: 10 @32002 has 1 MA's), (15, 31945), (16, 31942), (18, 31900), (20, 31885), (24, 31765), (26, 31720), (28, 31714), (35, 31618), (46, 31471), (48, 31447), (49, 31417), (55, 31324), (60, 31237), (61, 31216), (62, 31192),

Gene: BackstagePass_45 Start: 32457, Stop: 31561, Start Num: 8
Candidate Starts for BackstagePass_45:
(4, 32523), (Start: 8 @32457 has 13 MA's), (9, 32451), (Start: 10 @32448 has 1 MA's), (14, 32412), (15, 32391), (16, 32388), (18, 32346), (20, 32331), (24, 32211), (26, 32166), (28, 32160), (35, 32064), (37, 32058), (38, 32040), (48, 31893), (49, 31863), (55, 31770), (57, 31743), (60, 31683), (62, 31638), (65, 31581),

Gene: Bowser_39 Start: 31647, Stop: 30763, Start Num: 10
Candidate Starts for Bowser_39:

(Start: 8 @31656 has 13 MA's), (9, 31650), (Start: 10 @31647 has 1 MA's), (15, 31590), (16, 31587), (18, 31545), (22, 31461), (26, 31365), (35, 31263), (39, 31215), (60, 30882), (62, 30837),

Gene: Coriander_39 Start: 31214, Stop: 30324, Start Num: 8
Candidate Starts for Coriander_39:
(Start: 8 @31214 has 13 MA's), (9, 31208), (Start: 10 @31205 has 1 MA's), (15, 31148), (16, 31145), (18, 31103), (22, 31019), (31, 30860), (35, 30821), (39, 30773), (46, 30674), (48, 30650), (51, 30575), (55, 30527), (60, 30440), (62, 30395), (63, 30392),

Gene: Dmitri_38 Start: 32615, Stop: 31725, Start Num: 8
Candidate Starts for Dmitri_38:
(Start: 8 @32615 has 13 MA's), (9, 32609), (Start: 10 @32606 has 1 MA's), (14, 32570), (15, 32549), (16, 32546), (18, 32504), (22, 32420), (35, 32222), (46, 32075), (51, 31976), (58, 31883), (60, 31841), (62, 31796),

Gene: Doggs_36 Start: 31939, Stop: 31049, Start Num: 8
Candidate Starts for Doggs_36:
(Start: 8 @31939 has 13 MA's), (9, 31933), (Start: 10 @31930 has 1 MA's), (14, 31894), (15, 31873), (16, 31870), (18, 31828), (19, 31822), (22, 31744), (31, 31585), (39, 31498), (46, 31399), (60, 31165), (62, 31120), (63, 31117),

Gene: Eyes_36 Start: 31424, Stop: 30528, Start Num: 8
Candidate Starts for Eyes_36:
(Start: 8 @31424 has 13 MA's), (9, 31418), (Start: 10 @31415 has 1 MA's), (15, 31358), (16, 31355), (18, 31313), (21, 31268), (22, 31229), (32, 31064), (34, 31043), (35, 31031), (37, 31025), (38, 31007), (40, 30980), (45, 30905), (47, 30869), (48, 30860), (52, 30779), (54, 30746), (60, 30650), (61, 30629), (62, 30605),

Gene: GEazy_42 Start: 31613, Stop: 30720, Start Num: 8
Candidate Starts for GEazy_42:
(Start: 8 @31613 has 13 MA's), (9, 31607), (Start: 10 @31604 has 1 MA's), (12, 31580), (15, 31547), (16, 31544), (18, 31502), (20, 31487), (22, 31418), (32, 31253), (33, 31247), (34, 31232), (35, 31220), (38, 31196), (40, 31169), (45, 31094), (47, 31058), (48, 31049), (57, 30899), (60, 30839), (61, 30818), (62, 30794), (65, 30740),

Gene: HannahD_40 Start: 30978, Stop: 30085, Start Num: 8
Candidate Starts for HannahD_40:
(Start: 8 @30978 has 13 MA's), (9, 30972), (Start: 10 @30969 has 1 MA's), (12, 30945), (15, 30912), (16, 30909), (18, 30867), (20, 30852), (22, 30783), (32, 30618), (33, 30612), (34, 30597), (35, 30585), (38, 30561), (40, 30534), (45, 30459), (47, 30423), (48, 30414), (57, 30264), (60, 30204), (61, 30183), (62, 30159), (65, 30105),

Gene: Kiko_39 Start: 31306, Stop: 30413, Start Num: 8
Candidate Starts for Kiko_39:
(Start: 8 @31306 has 13 MA's), (9, 31300), (Start: 10 @31297 has 1 MA's), (15, 31240), (16, 31237), (18, 31195), (22, 31111), (24, 31060), (28, 31009), (35, 30913), (38, 30889), (42, 30817), (48, 30742), (60, 30532), (62, 30487),

Gene: MagicMan_38 Start: 31978, Stop: 31088, Start Num: 8
Candidate Starts for MagicMan_38:
(1, 32086), (3, 32077), (6, 32032), (Start: 8 @31978 has 13 MA's), (9, 31972), (Start: 10 @31969 has 1 MA's), (15, 31912), (16, 31909), (18, 31867), (21, 31822), (22, 31783), (32, 31618), (34, 31597), (35, 31585), (37, 31579), (38, 31561), (40, 31534), (45, 31459), (47, 31423), (48, 31414), (52, 31333), (60,

31204), (61, 31183), (62, 31159),

Gene: Moonflower_38 Start: 32642, Stop: 31752, Start Num: 8
Candidate Starts for Moonflower_38:
(2, 32750), (Start: 8 @32642 has 13 MA's), (9, 32636), (Start: 10 @32633 has 1 MA's), (14, 32597), (15, 32576), (16, 32573), (18, 32531), (22, 32447), (35, 32249), (46, 32102), (51, 32003), (60, 31868), (61, 31847), (62, 31823),

Gene: Nyceirae_34 Start: 29373, Stop: 28474, Start Num: 8
Candidate Starts for Nyceirae_34:
(Start: 8 @29373 has 13 MA's), (9, 29367), (Start: 10 @29364 has 1 MA's), (15, 29307), (16, 29304), (17, 29280), (18, 29262), (24, 29127), (28, 29076), (30, 29040), (36, 28977), (46, 28833), (53, 28707), (59, 28620), (60, 28599), (62, 28554), (66, 28494),

Gene: Opie_41 Start: 32411, Stop: 31515, Start Num: 8
Candidate Starts for Opie_41:
(Start: 8 @32411 has 13 MA's), (9, 32405), (Start: 10 @32402 has 1 MA's), (15, 32345), (16, 32342), (18, 32300), (20, 32285), (21, 32255), (24, 32165), (26, 32120), (27, 32117), (28, 32114), (35, 32018), (37, 32012), (38, 31994), (48, 31847), (49, 31817), (57, 31697), (60, 31637), (61, 31616), (62, 31592),

Gene: Schnabeltier_38 Start: 31608, Stop: 30718, Start Num: 8
Candidate Starts for Schnabeltier_38:
(5, 31668), (Start: 8 @31608 has 13 MA's), (9, 31602), (Start: 10 @31599 has 1 MA's), (15, 31542), (16, 31539), (18, 31497), (21, 31452), (22, 31413), (32, 31248), (34, 31227), (35, 31215), (37, 31209), (38, 31191), (40, 31164), (45, 31089), (47, 31053), (48, 31044), (52, 30963), (60, 30834), (61, 30813), (62, 30789),

Gene: TaronosaurasRx_39 Start: 30540, Stop: 29644, Start Num: 8
Candidate Starts for TaronosaurasRx_39:
(Start: 8 @30540 has 13 MA's), (9, 30534), (Start: 10 @30531 has 1 MA's), (15, 30474), (16, 30471), (18, 30429), (21, 30384), (24, 30294), (25, 30273), (28, 30243), (35, 30147), (37, 30141), (38, 30123), (48, 29976), (49, 29946), (55, 29853), (57, 29826), (60, 29766), (61, 29745), (62, 29721),

Gene: Whack_39 Start: 32450, Stop: 31497, Start Num: 7
Candidate Starts for Whack_39:
(Start: 7 @32450 has 1 MA's), (11, 32384), (13, 32363), (23, 32177), (25, 32141), (28, 32111), (29, 32087), (39, 31961), (41, 31946), (43, 31910), (44, 31907), (48, 31835), (50, 31775), (56, 31691), (58, 31670), (64, 31550), (67, 31502),