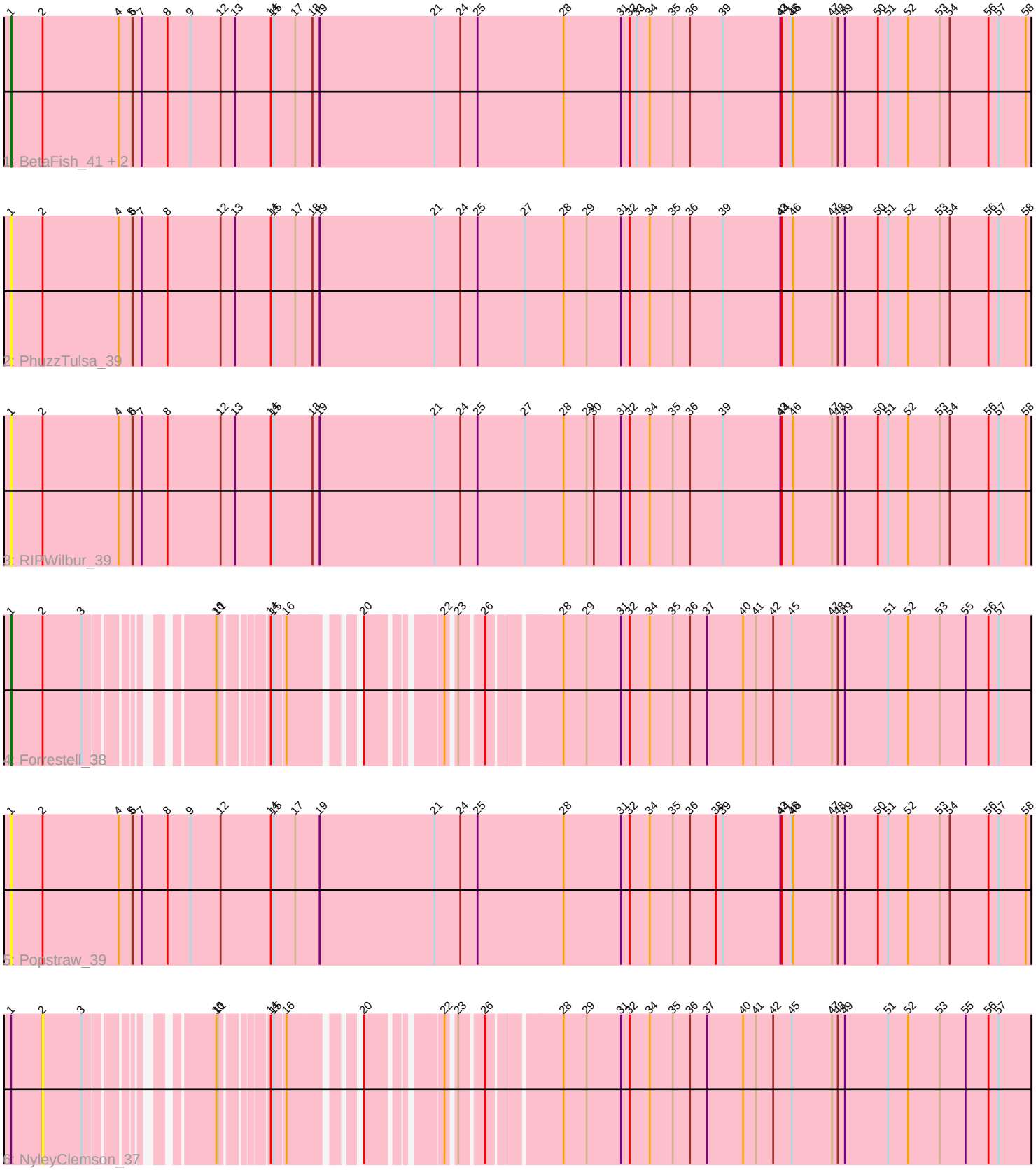
Pham 290015


1: BetaFish_41 + 2
2: PhuzzTulsa_39
3: RIPWilbur_39
4: Forrestell_38
5: Popstraw_39
6: NyleyClemson_37

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 290015 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290015 has 8 members, 5 are drafts.

Phages represented in each track:
• Track 1 : BetaFish_41, DogYard_41, Odyssey395_43
• Track 2 : PhuzzTulsa_39
• Track 3 : RIPWilbur_39
• Track 4 : Forrestell_38
• Track 5 : Popstraw_39
• Track 6 : NyleyClemson_37

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

The start number called the most often in the published annotations is 1, it was called in 3 of the 3 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BetaFish_41, DogYard_41, Forrestell_38, Odyssey395_43, PhuzzTulsa_39, Popstraw_39, RIPWilbur_39,

Genes that have the "Most Annotated" start but do not call it:
• NyleyClemson_37,

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

Summary by start number:

Start 1:
• Found in 8 of 8 (100.0%) of genes in pham
• Manual Annotations of this start: 3 of 3
• Called 87.5% of time when present
• Phage (with cluster) where this start called: BetaFish_41 (AP2), DogYard_41 (AP2), Forrestell_38 (AP2), Odyssey395_43 (AP2), PhuzzTulsa_39 (AP2), Popstraw_39 (AP2), RIPWilbur_39 (AP2),

Start 2:
• Found in 8 of 8 (100.0%) of genes in pham

• No Manual Annotations of this start.
• Called 12.5% of time when present
• Phage (with cluster) where this start called: NyleyClemson_37 (AP2),

Summary by clusters:

There is one cluster represented in this pham: AP2

Info for manual annotations of cluster AP2:
•Start number 1 was manually annotated 3 times for cluster AP2.

Gene Information:

Gene: BetaFish_41 Start: 30260, Stop: 32392, Start Num: 1
Candidate Starts for BetaFish_41:
(Start: 1 @30260 has 3 MA's), (2, 30326), (4, 30485), (5, 30512), (6, 30515), (7, 30533), (8, 30587), (9, 30635), (12, 30698), (13, 30728), (14, 30803), (15, 30809), (17, 30854), (18, 30890), (19, 30905), (21, 31145), (24, 31199), (25, 31235), (28, 31415), (31, 31535), (32, 31553), (33, 31568), (34, 31595), (35, 31643), (36, 31679), (39, 31748), (43, 31868), (44, 31871), (45, 31892), (46, 31895), (47, 31976), (48, 31988), (49, 32003), (50, 32072), (51, 32093), (52, 32135), (53, 32201), (54, 32222), (56, 32303), (57, 32324), (58, 32381),

Gene: DogYard_41 Start: 29960, Stop: 32092, Start Num: 1
Candidate Starts for DogYard_41:
(Start: 1 @29960 has 3 MA's), (2, 30026), (4, 30185), (5, 30212), (6, 30215), (7, 30233), (8, 30287), (9, 30335), (12, 30398), (13, 30428), (14, 30503), (15, 30509), (17, 30554), (18, 30590), (19, 30605), (21, 30845), (24, 30899), (25, 30935), (28, 31115), (31, 31235), (32, 31253), (33, 31268), (34, 31295), (35, 31343), (36, 31379), (39, 31448), (43, 31568), (44, 31571), (45, 31592), (46, 31595), (47, 31676), (48, 31688), (49, 31703), (50, 31772), (51, 31793), (52, 31835), (53, 31901), (54, 31922), (56, 32003), (57, 32024), (58, 32081),

Gene: Forrestell_38 Start: 28753, Stop: 30567, Start Num: 1
Candidate Starts for Forrestell_38:
(Start: 1 @28753 has 3 MA's), (2, 28819), (3, 28900), (10, 29080), (11, 29083), (14, 29158), (15, 29164), (16, 29182), (20, 29287), (22, 29401), (23, 29416), (26, 29458), (28, 29590), (29, 29638), (31, 29710), (32, 29728), (34, 29770), (35, 29818), (36, 29854), (37, 29890), (40, 29965), (41, 29992), (42, 30028), (45, 30067), (47, 30151), (48, 30163), (49, 30178), (51, 30268), (52, 30310), (53, 30376), (55, 30430), (56, 30478), (57, 30499),

Gene: NyleyClemson_37 Start: 28800, Stop: 30548, Start Num: 2
Candidate Starts for NyleyClemson_37:
(Start: 1 @28734 has 3 MA's), (2, 28800), (3, 28881), (10, 29061), (11, 29064), (14, 29139), (15, 29145), (16, 29163), (20, 29268), (22, 29382), (23, 29397), (26, 29439), (28, 29571), (29, 29619), (31, 29691), (32, 29709), (34, 29751), (35, 29799), (36, 29835), (37, 29871), (40, 29946), (41, 29973), (42, 30009), (45, 30048), (47, 30132), (48, 30144), (49, 30159), (51, 30249), (52, 30291), (53, 30357), (55, 30411), (56, 30459), (57, 30480),

Gene: Odyssey395_43 Start: 30085, Stop: 32217, Start Num: 1
Candidate Starts for Odyssey395_43:
(Start: 1 @30085 has 3 MA's), (2, 30151), (4, 30310), (5, 30337), (6, 30340), (7, 30358), (8, 30412), (9, 30460), (12, 30523), (13, 30553), (14, 30628), (15, 30634), (17, 30679), (18, 30715), (19, 30730), (21,

30970), (24, 31024), (25, 31060), (28, 31240), (31, 31360), (32, 31378), (33, 31393), (34, 31420), (35, 31468), (36, 31504), (39, 31573), (43, 31693), (44, 31696), (45, 31717), (46, 31720), (47, 31801), (48, 31813), (49, 31828), (50, 31897), (51, 31918), (52, 31960), (53, 32026), (54, 32047), (56, 32128), (57, 32149), (58, 32206),

Gene: PhuzzTulsa_39 Start: 30045, Stop: 32177, Start Num: 1
Candidate Starts for PhuzzTulsa_39:
(Start: 1 @30045 has 3 MA's), (2, 30111), (4, 30270), (5, 30297), (6, 30300), (7, 30318), (8, 30372), (12, 30483), (13, 30513), (14, 30588), (15, 30594), (17, 30639), (18, 30675), (19, 30690), (21, 30930), (24, 30984), (25, 31020), (27, 31119), (28, 31200), (29, 31248), (31, 31320), (32, 31338), (34, 31380), (35, 31428), (36, 31464), (39, 31533), (43, 31653), (44, 31656), (46, 31680), (47, 31761), (48, 31773), (49, 31788), (50, 31857), (51, 31878), (52, 31920), (53, 31986), (54, 32007), (56, 32088), (57, 32109), (58, 32166),

Gene: Popstraw_39 Start: 29869, Stop: 32001, Start Num: 1
Candidate Starts for Popstraw_39:
(Start: 1 @29869 has 3 MA's), (2, 29935), (4, 30094), (5, 30121), (6, 30124), (7, 30142), (8, 30196), (9, 30244), (12, 30307), (14, 30412), (15, 30418), (17, 30463), (19, 30514), (21, 30754), (24, 30808), (25, 30844), (28, 31024), (31, 31144), (32, 31162), (34, 31204), (35, 31252), (36, 31288), (38, 31342), (39, 31357), (43, 31477), (44, 31480), (45, 31501), (46, 31504), (47, 31585), (48, 31597), (49, 31612), (50, 31681), (51, 31702), (52, 31744), (53, 31810), (54, 31831), (56, 31912), (57, 31933), (58, 31990),

Gene: RIPWilbur_39 Start: 29399, Stop: 31531, Start Num: 1
Candidate Starts for RIPWilbur_39:
(Start: 1 @29399 has 3 MA's), (2, 29465), (4, 29624), (5, 29651), (6, 29654), (7, 29672), (8, 29726), (12, 29837), (13, 29867), (14, 29942), (15, 29948), (18, 30029), (19, 30044), (21, 30284), (24, 30338), (25, 30374), (27, 30473), (28, 30554), (29, 30602), (30, 30617), (31, 30674), (32, 30692), (34, 30734), (35, 30782), (36, 30818), (39, 30887), (43, 31007), (44, 31010), (46, 31034), (47, 31115), (48, 31127), (49, 31142), (50, 31211), (51, 31232), (52, 31274), (53, 31340), (54, 31361), (56, 31442), (57, 31463), (58, 31520),