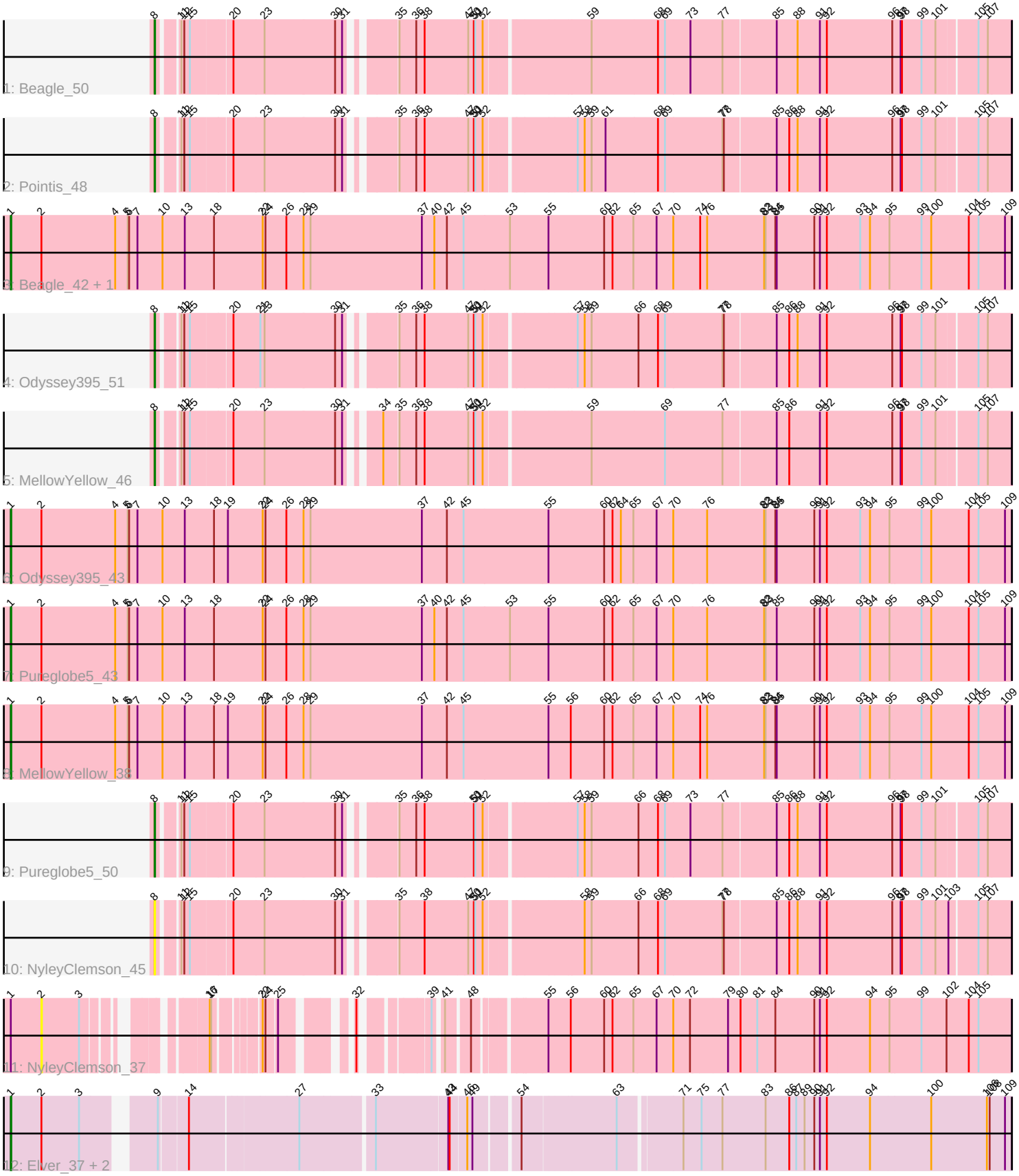
Pham 196942


1: Beagle_50
2: Pointis_48
3: Beagle_42 + 1
4: Odyssey395_51
5: MellowYellow_46
6: Odyssey395_43
7: Pureglobe5_43
8: MellowYellow_38
9: Pureglobe5_50
10: NyleyClemson_45
11: NyleyClemson_37
12: Elver_37 + 2

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 196942 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196942 has 15 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Beagle_50
• Track 2 : Pointis_48
• Track 3 : Beagle_42, Pointis_40
• Track 4 : Odyssey395_51
• Track 5 : MellowYellow_46
• Track 6 : Odyssey395_43
• Track 7 : Pureglobe5_43
• Track 8 : MellowYellow_38
• Track 9 : Pureglobe5_50
• Track 10 : NyleyClemson_45
• Track 11 : NyleyClemson_37
• Track 12 : Elver_37, Qui_38, Paella_38

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 7 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beagle_42, Elver_37, MellowYellow_38, Odyssey395_43, Paella_38, Pointis_40, Pureglobe5_43, Qui_38,

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

Genes that do not have the "Most Annotated" start:
• Beagle_50, MellowYellow_46, NyleyClemson_45, Odyssey395_51, Pointis_48, Pureglobe5_50,

Summary by start number:

Start 1:
• Found in 9 of 15 (60.0%) of genes in pham
• Manual Annotations of this start: 7 of 12

• Called 88.9% of time when present
• Phage (with cluster) where this start called: Beagle_42 (AP2), Elver_37 (FK), MellowYellow_38 (AP2), Odyssey395_43 (AP2), Paella_38 (FK), Pointis_40 (AP2), Pureglobe5_43 (AP2), Qui_38 (FK),

Start 2:
• Found in 9 of 15 (60.0%) of genes in pham
• No Manual Annotations of this start.
• Called 11.1% of time when present
• Phage (with cluster) where this start called: NyleyClemson_37 (AP2),

Start 8:
• Found in 6 of 15 (40.0%) of genes in pham
• Manual Annotations of this start: 5 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beagle_50 (AP2), MellowYellow_46 (AP2), NyleyClemson_45 (AP2), Odyssey395_51 (AP2), Pointis_48 (AP2), Pureglobe5_50 (AP2),

Summary by clusters:

There are 2 clusters represented in this pham: AP2, FK,

Info for manual annotations of cluster AP2:
•Start number 1 was manually annotated 5 times for cluster AP2.
•Start number 8 was manually annotated 5 times for cluster AP2.

Info for manual annotations of cluster FK:
•Start number 1 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: Beagle_50 Start: 35979, Stop: 37676, Start Num: 8
Candidate Starts for Beagle_50:
(Start: 8 @35979 has 5 MA's), (11, 36015), (12, 36021), (15, 36033), (20, 36117), (23, 36183), (30, 36324), (31, 36339), (35, 36417), (36, 36453), (38, 36471), (47, 36561), (50, 36573), (51, 36576), (52, 36591), (59, 36795), (68, 36936), (69, 36951), (73, 37005), (77, 37074), (85, 37185), (88, 37230), (91, 37278), (92, 37293), (96, 37434), (97, 37452), (98, 37455), (99, 37497), (101, 37527), (105, 37608), (107, 37626),

Gene: Beagle_42 Start: 30066, Stop: 32198, Start Num: 1
Candidate Starts for Beagle_42:
(Start: 1 @30066 has 7 MA's), (2, 30132), (4, 30291), (5, 30318), (6, 30321), (7, 30339), (10, 30393), (13, 30441), (18, 30504), (22, 30609), (24, 30615), (26, 30660), (28, 30696), (29, 30711), (37, 30951), (40, 30978), (42, 31005), (45, 31041), (53, 31140), (55, 31221), (60, 31341), (62, 31359), (65, 31401), (67, 31449), (70, 31485), (74, 31539), (76, 31554), (82, 31674), (83, 31677), (84, 31698), (85, 31701), (90, 31782), (91, 31794), (92, 31809), (93, 31878), (94, 31899), (95, 31941), (99, 32007), (100, 32028), (104, 32109), (105, 32130), (109, 32187),

Gene: Elver_37 Start: 26848, Stop: 28818, Start Num: 1
Candidate Starts for Elver_37:

(Start: 1 @26848 has 7 MA's), (2, 26914), (3, 26995), (9, 27121), (14, 27175), (27, 27388), (33, 27535), (43, 27682), (44, 27685), (46, 27718), (49, 27727), (54, 27808), (63, 28000), (71, 28123), (75, 28159), (77, 28201), (83, 28294), (86, 28345), (87, 28360), (89, 28378), (90, 28399), (91, 28411), (92, 28426), (94, 28519), (100, 28648), (106, 28768), (108, 28774), (109, 28807),

Gene: MellowYellow_46 Start: 34714, Stop: 36411, Start Num: 8
Candidate Starts for MellowYellow_46:
(Start: 8 @34714 has 5 MA's), (11, 34750), (12, 34756), (15, 34768), (20, 34852), (23, 34918), (30, 35059), (31, 35074), (34, 35122), (35, 35152), (36, 35188), (38, 35206), (47, 35296), (50, 35308), (51, 35311), (52, 35326), (59, 35530), (69, 35686), (77, 35809), (85, 35920), (86, 35947), (91, 36013), (92, 36028), (96, 36169), (97, 36187), (98, 36190), (99, 36232), (101, 36262), (105, 36343), (107, 36361),

Gene: MellowYellow_38 Start: 28801, Stop: 30933, Start Num: 1
Candidate Starts for MellowYellow_38:
(Start: 1 @28801 has 7 MA's), (2, 28867), (4, 29026), (5, 29053), (6, 29056), (7, 29074), (10, 29128), (13, 29176), (18, 29239), (19, 29269), (22, 29344), (24, 29350), (26, 29395), (28, 29431), (29, 29446), (37, 29686), (42, 29740), (45, 29776), (55, 29956), (56, 30004), (60, 30076), (62, 30094), (65, 30136), (67, 30184), (70, 30220), (74, 30274), (76, 30289), (82, 30409), (83, 30412), (84, 30433), (85, 30436), (90, 30517), (91, 30529), (92, 30544), (93, 30613), (94, 30634), (95, 30676), (99, 30742), (100, 30763), (104, 30844), (105, 30865), (109, 30922),

Gene: NyleyClemson_45 Start: 34329, Stop: 36026, Start Num: 8
Candidate Starts for NyleyClemson_45:
(Start: 8 @34329 has 5 MA's), (11, 34365), (12, 34371), (15, 34383), (20, 34467), (23, 34533), (30, 34674), (31, 34689), (35, 34767), (38, 34821), (47, 34911), (50, 34923), (51, 34926), (52, 34941), (58, 35130), (59, 35145), (66, 35244), (68, 35286), (69, 35301), (77, 35424), (78, 35427), (85, 35535), (86, 35562), (88, 35580), (91, 35628), (92, 35643), (96, 35784), (97, 35802), (98, 35805), (99, 35847), (101, 35877), (103, 35901), (105, 35958), (107, 35976),

Gene: NyleyClemson_37 Start: 28800, Stop: 30548, Start Num: 2
Candidate Starts for NyleyClemson_37:
(Start: 1 @28734 has 7 MA's), (2, 28800), (3, 28881), (16, 29061), (17, 29064), (22, 29139), (24, 29145), (25, 29163), (32, 29268), (39, 29382), (41, 29397), (48, 29439), (55, 29571), (56, 29619), (60, 29691), (62, 29709), (65, 29751), (67, 29799), (70, 29835), (72, 29871), (79, 29946), (80, 29973), (81, 30009), (84, 30048), (90, 30132), (91, 30144), (92, 30159), (94, 30249), (95, 30291), (99, 30357), (102, 30411), (104, 30459), (105, 30480),

Gene: Odyssey395_51 Start: 35998, Stop: 37695, Start Num: 8
Candidate Starts for Odyssey395_51:
(Start: 8 @35998 has 5 MA's), (11, 36034), (12, 36040), (15, 36052), (20, 36136), (21, 36193), (23, 36202), (30, 36343), (31, 36358), (35, 36436), (36, 36472), (38, 36490), (47, 36580), (50, 36592), (51, 36595), (52, 36610), (57, 36784), (58, 36799), (59, 36814), (66, 36913), (68, 36955), (69, 36970), (77, 37093), (78, 37096), (85, 37204), (86, 37231), (88, 37249), (91, 37297), (92, 37312), (96, 37453), (97, 37471), (98, 37474), (99, 37516), (101, 37546), (105, 37627), (107, 37645),

Gene: Odyssey395_43 Start: 30085, Stop: 32217, Start Num: 1
Candidate Starts for Odyssey395_43:
(Start: 1 @30085 has 7 MA's), (2, 30151), (4, 30310), (5, 30337), (6, 30340), (7, 30358), (10, 30412), (13, 30460), (18, 30523), (19, 30553), (22, 30628), (24, 30634), (26, 30679), (28, 30715), (29, 30730), (37, 30970), (42, 31024), (45, 31060), (55, 31240), (60, 31360), (62, 31378), (64, 31393), (65, 31420), (67, 31468), (70, 31504), (76, 31573), (82, 31693), (83, 31696), (84, 31717), (85, 31720), (90, 31801), (91, 31813), (92, 31828), (93, 31897), (94, 31918), (95, 31960), (99, 32026), (100, 32047), (104, 32128), (105, 32149), (109, 32206),

Gene: Paella_38 Start: 26850, Stop: 28820, Start Num: 1
Candidate Starts for Paella_38:
(Start: 1 @26850 has 7 MA's), (2, 26916), (3, 26997), (9, 27123), (14, 27177), (27, 27390), (33, 27537), (43, 27684), (44, 27687), (46, 27720), (49, 27729), (54, 27810), (63, 28002), (71, 28125), (75, 28161), (77, 28203), (83, 28296), (86, 28347), (87, 28362), (89, 28380), (90, 28401), (91, 28413), (92, 28428), (94, 28521), (100, 28650), (106, 28770), (108, 28776), (109, 28809),

Gene: Pointis_48 Start: 35996, Stop: 37693, Start Num: 8
Candidate Starts for Pointis_48:
(Start: 8 @35996 has 5 MA's), (11, 36032), (12, 36038), (15, 36050), (20, 36134), (23, 36200), (30, 36341), (31, 36356), (35, 36434), (36, 36470), (38, 36488), (47, 36578), (50, 36590), (51, 36593), (52, 36608), (57, 36782), (58, 36797), (59, 36812), (61, 36842), (68, 36953), (69, 36968), (77, 37091), (78, 37094), (85, 37202), (86, 37229), (88, 37247), (91, 37295), (92, 37310), (96, 37451), (97, 37469), (98, 37472), (99, 37514), (101, 37544), (105, 37625), (107, 37643),

Gene: Pointis_40 Start: 30083, Stop: 32215, Start Num: 1
Candidate Starts for Pointis_40:
(Start: 1 @30083 has 7 MA's), (2, 30149), (4, 30308), (5, 30335), (6, 30338), (7, 30356), (10, 30410), (13, 30458), (18, 30521), (22, 30626), (24, 30632), (26, 30677), (28, 30713), (29, 30728), (37, 30968), (40, 30995), (42, 31022), (45, 31058), (53, 31157), (55, 31238), (60, 31358), (62, 31376), (65, 31418), (67, 31466), (70, 31502), (74, 31556), (76, 31571), (82, 31691), (83, 31694), (84, 31715), (85, 31718), (90, 31799), (91, 31811), (92, 31826), (93, 31895), (94, 31916), (95, 31958), (99, 32024), (100, 32045), (104, 32126), (105, 32147), (109, 32204),

Gene: Pureglobe5_43 Start: 30266, Stop: 32398, Start Num: 1
Candidate Starts for Pureglobe5_43:
(Start: 1 @30266 has 7 MA's), (2, 30332), (4, 30491), (5, 30518), (6, 30521), (7, 30539), (10, 30593), (13, 30641), (18, 30704), (22, 30809), (24, 30815), (26, 30860), (28, 30896), (29, 30911), (37, 31151), (40, 31178), (42, 31205), (45, 31241), (53, 31340), (55, 31421), (60, 31541), (62, 31559), (65, 31601), (67, 31649), (70, 31685), (76, 31754), (82, 31874), (83, 31877), (85, 31901), (90, 31982), (91, 31994), (92, 32009), (93, 32078), (94, 32099), (95, 32141), (99, 32207), (100, 32228), (104, 32309), (105, 32330), (109, 32387),

Gene: Pureglobe5_50 Start: 36179, Stop: 37876, Start Num: 8
Candidate Starts for Pureglobe5_50:
(Start: 8 @36179 has 5 MA's), (11, 36215), (12, 36221), (15, 36233), (20, 36317), (23, 36383), (30, 36524), (31, 36539), (35, 36617), (36, 36653), (38, 36671), (50, 36773), (51, 36776), (52, 36791), (57, 36965), (58, 36980), (59, 36995), (66, 37094), (68, 37136), (69, 37151), (73, 37205), (77, 37274), (85, 37385), (86, 37412), (88, 37430), (91, 37478), (92, 37493), (96, 37634), (97, 37652), (98, 37655), (99, 37697), (101, 37727), (105, 37808), (107, 37826),

Gene: Qui_38 Start: 26850, Stop: 28820, Start Num: 1
Candidate Starts for Qui_38:
(Start: 1 @26850 has 7 MA's), (2, 26916), (3, 26997), (9, 27123), (14, 27177), (27, 27390), (33, 27537), (43, 27684), (44, 27687), (46, 27720), (49, 27729), (54, 27810), (63, 28002), (71, 28125), (75, 28161), (77, 28203), (83, 28296), (86, 28347), (87, 28362), (89, 28380), (90, 28401), (91, 28413), (92, 28428), (94, 28521), (100, 28650), (106, 28770), (108, 28776), (109, 28809),