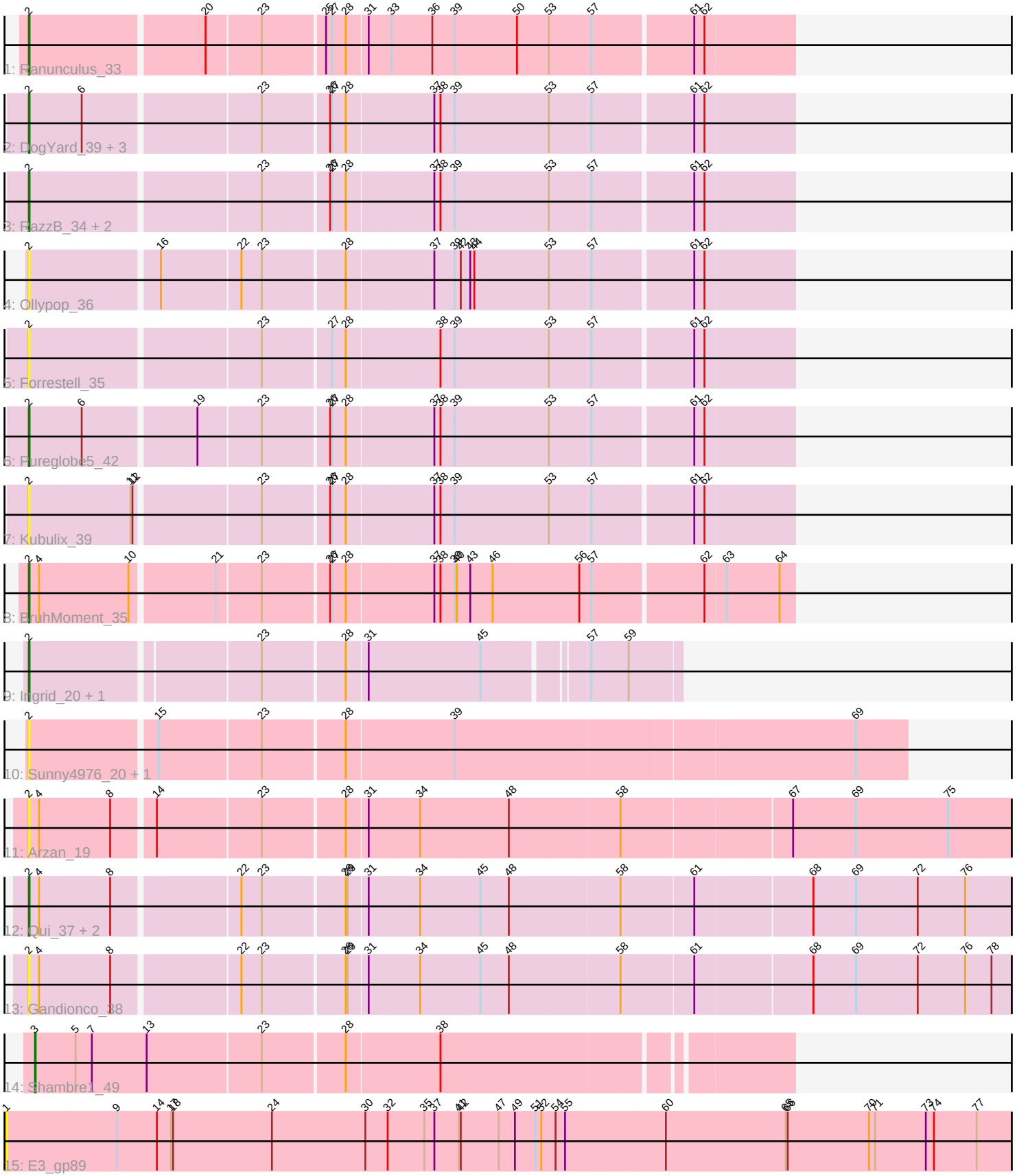
Pham 200576


1: Ranunculus_33
2: DogYard_39 + 3
3: RazzB_34 + 2
4: Ollypop_36
5: Forrestell_35
6: Pureglobe5_42
7: Kubulix_39
8: BruhMoment_35
9: Ingrid_20 + 1
10: Sunny4976_20 + 1
11: Arzan_19
12: Qui_37 + 2
13: Gandionco_38
14: Shambre1_49
15: E3_gp89

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 200576 Report

This analysis was run 01/18/25 on database version 583.

Pham number 200576 has 24 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Ranunculus_33
• Track 2 : DogYard_39, Beagle_41, Odyssey395_42, Pointis_39
• Track 3 : RazzB_34, NyleyClemson_36, MellowYellow_37
• Track 4 : Ollypop_36
• Track 5 : Forrestell_35
• Track 6 : Pureglobe5_42
• Track 7 : Kubulix_39
• Track 8 : BruhMoment_35
• Track 9 : Ingrid_20, Loretta_20
• Track 10 : Sunny4976_20, Jazzy4900_21
• Track 11 : Arzan_19
• Track 12 : Qui_37, Paella_37, Elver_36
• Track 13 : Gandionco_38
• Track 14 : Shambre1_49
• Track 15 : E3_gp89

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

The start number called the most often in the published annotations is 2, it was called in 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Arzan_19, Beagle_41, BruhMoment_35, DogYard_39, Elver_36, Forrestell_35, Gandionco_38, Ingrid_20, Jazzy4900_21, Kubulix_39, Loretta_20, MellowYellow_37, NyleyClemson_36, Odyssey395_42, Ollypop_36, Paella_37, Pointis_39, Pureglobe5_42, Qui_37, Ranunculus_33, RazzB_34, Sunny4976_20,

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

Genes that do not have the "Most Annotated" start:
• E3_gp89, Shambre1_49,

Summary by start number:

Start 1:
• Found in 1 of 24 (4.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp89 (singleton),

Start 2:
• Found in 22 of 24 (91.7%) of genes in pham
• Manual Annotations of this start: 11 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arzan_19 (FI), Beagle_41 (AP2), BruhMoment_35 (AP3), DogYard_39 (AP2), Elver_36 (FK), Forrestell_35 (AP2), Gandionco_38 (FK), Ingrid_20 (AU3), Jazzy4900_21 (FI), Kubulix_39 (AP2), Loretta_20 (AU3), MellowYellow_37 (AP2), NyleyClemson_36 (AP2), Odyssey395_42 (AP2), Ollypop_36 (AP2), Paella_37 (FK), Pointis_39 (AP2), Pureglobe5_42 (AP2), Qui_37 (FK), Ranunculus_33 (AP), RazzB_34 (AP2), Sunny4976_20 (FI),

Start 3:
• Found in 1 of 24 (4.2%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shambre1_49 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, AP2, AP3, AP, AU3, FI, FK,

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

Info for manual annotations of cluster AP2:
•Start number 2 was manually annotated 5 times for cluster AP2.

Info for manual annotations of cluster AP3:
•Start number 2 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AU3:
•Start number 2 was manually annotated 2 times for cluster AU3.

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

Gene Information:

Gene: Arzan_19 Start: 14397, Stop: 15788, Start Num: 2
Candidate Starts for Arzan_19:
(Start: 2 @14397 has 11 MA's), (4, 14412), (8, 14514), (14, 14571), (23, 14721), (28, 14832), (31, 14862), (34, 14937), (48, 15066), (58, 15225), (67, 15465), (69, 15558), (75, 15690),

Gene: Beagle_41 Start: 28996, Stop: 30066, Start Num: 2
Candidate Starts for Beagle_41:
(Start: 2 @28996 has 11 MA's), (6, 29071), (23, 29320), (26, 29410), (27, 29413), (28, 29431), (37, 29557), (38, 29566), (39, 29587), (53, 29722), (57, 29782), (61, 29923), (62, 29938),

Gene: BruhMoment_35 Start: 28578, Stop: 29648, Start Num: 2
Candidate Starts for BruhMoment_35:
(Start: 2 @28578 has 11 MA's), (4, 28593), (10, 28722), (21, 28839), (23, 28902), (26, 28992), (27, 28995), (28, 29013), (37, 29139), (38, 29148), (39, 29169), (40, 29172), (43, 29190), (46, 29223), (56, 29349), (57, 29364), (62, 29520), (63, 29550), (64, 29628),

Gene: DogYard_39 Start: 28890, Stop: 29960, Start Num: 2
Candidate Starts for DogYard_39:
(Start: 2 @28890 has 11 MA's), (6, 28965), (23, 29214), (26, 29304), (27, 29307), (28, 29325), (37, 29451), (38, 29460), (39, 29481), (53, 29616), (57, 29676), (61, 29817), (62, 29832),

Gene: E3_gp89 Start: 50133, Stop: 51623, Start Num: 1
Candidate Starts for E3_gp89:
(1, 50133), (9, 50295), (14, 50352), (17, 50373), (18, 50376), (24, 50520), (30, 50658), (32, 50691), (35, 50745), (37, 50760), (41, 50796), (42, 50799), (47, 50853), (49, 50877), (51, 50907), (52, 50916), (54, 50937), (55, 50949), (60, 51096), (65, 51273), (66, 51276), (70, 51396), (71, 51405), (73, 51480), (74, 51492), (77, 51555),

Gene: Elver_36 Start: 25431, Stop: 26822, Start Num: 2
Candidate Starts for Elver_36:
(Start: 2 @25431 has 11 MA's), (4, 25446), (8, 25548), (22, 25725), (23, 25755), (28, 25866), (29, 25869), (31, 25896), (34, 25971), (45, 26058), (48, 26100), (58, 26259), (61, 26364), (68, 26529), (69, 26592), (72, 26679), (76, 26748),

Gene: Forrestell_35 Start: 27683, Stop: 28753, Start Num: 2
Candidate Starts for Forrestell_35:
(Start: 2 @27683 has 11 MA's), (23, 28007), (27, 28100), (28, 28118), (38, 28253), (39, 28274), (53, 28409), (57, 28469), (61, 28610), (62, 28625),

Gene: Gandionco_38 Start: 25953, Stop: 27344, Start Num: 2
Candidate Starts for Gandionco_38:
(Start: 2 @25953 has 11 MA's), (4, 25968), (8, 26070), (22, 26247), (23, 26277), (28, 26388), (29, 26391), (31, 26418), (34, 26493), (45, 26580), (48, 26622), (58, 26781), (61, 26886), (68, 27051), (69, 27114), (72, 27201), (76, 27270), (78, 27309),

Gene: Ingrid_20 Start: 14558, Stop: 15445, Start Num: 2
Candidate Starts for Ingrid_20:
(Start: 2 @14558 has 11 MA's), (23, 14876), (28, 14987), (31, 15017), (45, 15179), (57, 15317), (59, 15371),

Gene: Jazzy4900_21 Start: 14415, Stop: 15650, Start Num: 2
Candidate Starts for Jazzy4900_21:
(Start: 2 @14415 has 11 MA's), (15, 14592), (23, 14739), (28, 14850), (39, 15006), (69, 15576),

Gene: Kubulix_39 Start: 29186, Stop: 30256, Start Num: 2
Candidate Starts for Kubulix_39:
(Start: 2 @29186 has 11 MA's), (11, 29333), (12, 29336), (23, 29510), (26, 29600), (27, 29603), (28, 29621), (37, 29747), (38, 29756), (39, 29777), (53, 29912), (57, 29972), (61, 30113), (62, 30128),

Gene: Loretta_20 Start: 14558, Stop: 15445, Start Num: 2
Candidate Starts for Loretta_20:
(Start: 2 @14558 has 11 MA's), (23, 14876), (28, 14987), (31, 15017), (45, 15179), (57, 15317), (59, 15371),

Gene: MellowYellow_37 Start: 27731, Stop: 28801, Start Num: 2
Candidate Starts for MellowYellow_37:
(Start: 2 @27731 has 11 MA's), (23, 28055), (26, 28145), (27, 28148), (28, 28166), (37, 28292), (38, 28301), (39, 28322), (53, 28457), (57, 28517), (61, 28658), (62, 28673),

Gene: NyleyClemson_36 Start: 27664, Stop: 28734, Start Num: 2
Candidate Starts for NyleyClemson_36:
(Start: 2 @27664 has 11 MA's), (23, 27988), (26, 28078), (27, 28081), (28, 28099), (37, 28225), (38, 28234), (39, 28255), (53, 28390), (57, 28450), (61, 28591), (62, 28606),

Gene: Odyssey395_42 Start: 29015, Stop: 30085, Start Num: 2
Candidate Starts for Odyssey395_42:
(Start: 2 @29015 has 11 MA's), (6, 29090), (23, 29339), (26, 29429), (27, 29432), (28, 29450), (37, 29576), (38, 29585), (39, 29606), (53, 29741), (57, 29801), (61, 29942), (62, 29957),

Gene: Ollypop_36 Start: 28092, Stop: 29162, Start Num: 2
Candidate Starts for Ollypop_36:
(Start: 2 @28092 has 11 MA's), (16, 28272), (22, 28386), (23, 28416), (28, 28527), (37, 28653), (39, 28683), (42, 28692), (43, 28704), (44, 28710), (53, 28818), (57, 28878), (61, 29019), (62, 29034),

Gene: Paella_37 Start: 25433, Stop: 26824, Start Num: 2
Candidate Starts for Paella_37:
(Start: 2 @25433 has 11 MA's), (4, 25448), (8, 25550), (22, 25727), (23, 25757), (28, 25868), (29, 25871), (31, 25898), (34, 25973), (45, 26060), (48, 26102), (58, 26261), (61, 26366), (68, 26531), (69, 26594), (72, 26681), (76, 26750),

Gene: Pointis_39 Start: 29013, Stop: 30083, Start Num: 2
Candidate Starts for Pointis_39:
(Start: 2 @29013 has 11 MA's), (6, 29088), (23, 29337), (26, 29427), (27, 29430), (28, 29448), (37, 29574), (38, 29583), (39, 29604), (53, 29739), (57, 29799), (61, 29940), (62, 29955),

Gene: Pureglobe5_42 Start: 29196, Stop: 30266, Start Num: 2
Candidate Starts for Pureglobe5_42:
(Start: 2 @29196 has 11 MA's), (6, 29271), (19, 29430), (23, 29520), (26, 29610), (27, 29613), (28, 29631), (37, 29757), (38, 29766), (39, 29787), (53, 29922), (57, 29982), (61, 30123), (62, 30138),

Gene: Qui_37 Start: 25433, Stop: 26824, Start Num: 2
Candidate Starts for Qui_37:
(Start: 2 @25433 has 11 MA's), (4, 25448), (8, 25550), (22, 25727), (23, 25757), (28, 25868), (29, 25871), (31, 25898), (34, 25973), (45, 26060), (48, 26102), (58, 26261), (61, 26366), (68, 26531), (69, 26594), (72, 26681), (76, 26750),

Gene: Ranunculus_33 Start: 28223, Stop: 29293, Start Num: 2
Candidate Starts for Ranunculus_33:
(Start: 2 @28223 has 11 MA's), (20, 28469), (23, 28547), (25, 28631), (27, 28640), (28, 28658), (31, 28688), (33, 28721), (36, 28781), (39, 28814), (50, 28904), (53, 28949), (57, 29009), (61, 29150), (62, 29165),

Gene: RazzB_34 Start: 27477, Stop: 28547, Start Num: 2
Candidate Starts for RazzB_34:
(Start: 2 @27477 has 11 MA's), (23, 27801), (26, 27891), (27, 27894), (28, 27912), (37, 28038), (38, 28047), (39, 28068), (53, 28203), (57, 28263), (61, 28404), (62, 28419),

Gene: Shambre1_49 Start: 30214, Stop: 31269, Start Num: 3
Candidate Starts for Shambre1_49:
(Start: 3 @30214 has 1 MA's), (5, 30271), (7, 30295), (13, 30376), (23, 30541), (28, 30652), (38, 30787),

Gene: Sunny4976_20 Start: 14415, Stop: 15650, Start Num: 2
Candidate Starts for Sunny4976_20:
(Start: 2 @14415 has 11 MA's), (15, 14592), (23, 14739), (28, 14850), (39, 15006), (69, 15576),