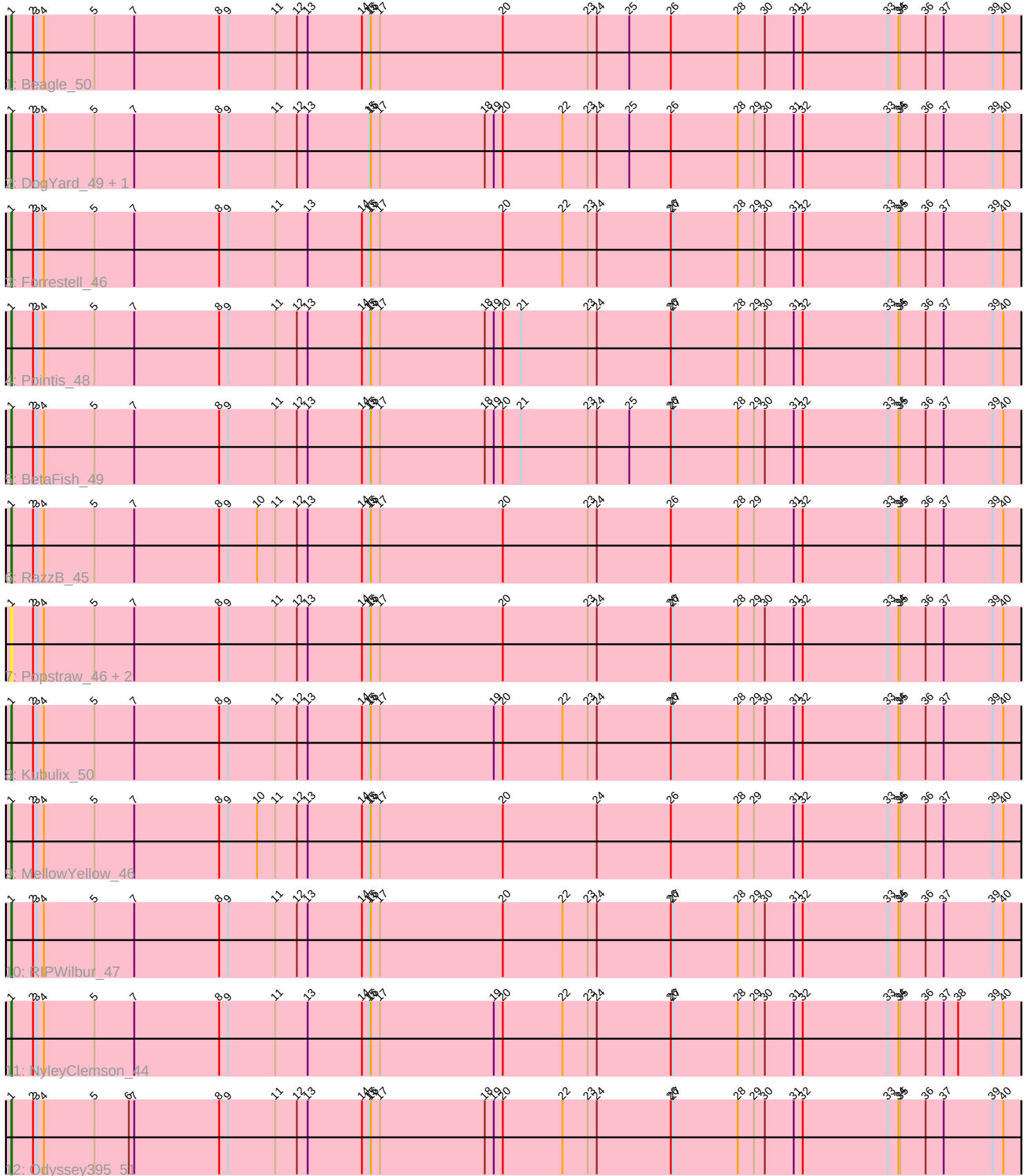


Pham 331358



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 331358 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331358 has 15 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Beagle_50
- Track 2 : DogYard_49, Pureglobe5_50
- Track 3 : Forrestell_46
- Track 4 : Pointis_48
- Track 5 : BetaFish_49
- Track 6 : RazzB_45
- Track 7 : Popstraw_46, Hive_47, PhuzzTulsa_46
- Track 8 : Kubulix_50
- Track 9 : MellowYellow_46
- Track 10 : RIPWilbur_47
- Track 11 : NyleyClemson_44
- Track 12 : Odyssey395_51

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

Genes that call this "Most Annotated" start:

- Beagle_50, BetaFish_49, DogYard_49, Forrestell_46, Hive_47, Kubulix_50, MellowYellow_46, NyleyClemson_44, Odyssey395_51, PhuzzTulsa_46, Pointis_48, Popstraw_46, Pureglobe5_50, RIPWilbur_47, RazzB_45,

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

-

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

-

Summary by start number:

Start 1:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 12 of 12

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beagle_50 (AP2), BetaFish_49 (AP2), DogYard_49 (AP2), Forrestell_46 (AP2), Hive_47 (AP2), Kubulix_50 (AP2), MellowYellow_46 (AP2), NyleyClemson_44 (AP2), Odyssey395_51 (AP2), PhuzzTulsa_46 (AP2), Pointis_48 (AP2), Popstraw_46 (AP2), Pureglobe5_50 (AP2), RIPWilbur_47 (AP2), RazzB_45 (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 12 times for cluster AP2.

Gene Information:

Gene: Beagle_50 Start: 35979, Stop: 37676, Start Num: 1

Candidate Starts for Beagle_50:

(Start: 1 @35979 has 12 MA's), (2, 36015), (3, 36021), (4, 36033), (5, 36117), (7, 36183), (8, 36324), (9, 36339), (11, 36417), (12, 36453), (13, 36471), (14, 36561), (15, 36573), (16, 36576), (17, 36591), (20, 36795), (23, 36936), (24, 36951), (25, 37005), (26, 37074), (28, 37185), (30, 37230), (31, 37278), (32, 37293), (33, 37434), (34, 37452), (35, 37455), (36, 37497), (37, 37527), (39, 37608), (40, 37626),

Gene: BetaFish_49 Start: 36173, Stop: 37870, Start Num: 1

Candidate Starts for BetaFish_49:

(Start: 1 @36173 has 12 MA's), (2, 36209), (3, 36215), (4, 36227), (5, 36311), (7, 36377), (8, 36518), (9, 36533), (11, 36611), (12, 36647), (13, 36665), (14, 36755), (15, 36767), (16, 36770), (17, 36785), (18, 36959), (19, 36974), (20, 36989), (21, 37019), (23, 37130), (24, 37145), (25, 37199), (26, 37268), (27, 37271), (28, 37379), (29, 37406), (30, 37424), (31, 37472), (32, 37487), (33, 37628), (34, 37646), (35, 37649), (36, 37691), (37, 37721), (39, 37802), (40, 37820),

Gene: DogYard_49 Start: 35873, Stop: 37570, Start Num: 1

Candidate Starts for DogYard_49:

(Start: 1 @35873 has 12 MA's), (2, 35909), (3, 35915), (4, 35927), (5, 36011), (7, 36077), (8, 36218), (9, 36233), (11, 36311), (12, 36347), (13, 36365), (15, 36467), (16, 36470), (17, 36485), (18, 36659), (19, 36674), (20, 36689), (22, 36788), (23, 36830), (24, 36845), (25, 36899), (26, 36968), (28, 37079), (29, 37106), (30, 37124), (31, 37172), (32, 37187), (33, 37328), (34, 37346), (35, 37349), (36, 37391), (37, 37421), (39, 37502), (40, 37520),

Gene: Forrestell_46 Start: 34348, Stop: 36045, Start Num: 1

Candidate Starts for Forrestell_46:

(Start: 1 @34348 has 12 MA's), (2, 34384), (3, 34390), (4, 34402), (5, 34486), (7, 34552), (8, 34693), (9, 34708), (11, 34786), (13, 34840), (14, 34930), (15, 34942), (16, 34945), (17, 34960), (20, 35164), (22, 35263), (23, 35305), (24, 35320), (26, 35443), (27, 35446), (28, 35554), (29, 35581), (30, 35599), (31, 35647), (32, 35662), (33, 35803), (34, 35821), (35, 35824), (36, 35866), (37, 35896), (39, 35977), (40, 35995),

Gene: Hive_47 Start: 36054, Stop: 37751, Start Num: 1

Candidate Starts for Hive_47:

(Start: 1 @36054 has 12 MA's), (2, 36090), (3, 36096), (4, 36108), (5, 36192), (7, 36258), (8, 36399), (9, 36414), (11, 36492), (12, 36528), (13, 36546), (14, 36636), (15, 36648), (16, 36651), (17, 36666),

(20, 36870), (23, 37011), (24, 37026), (26, 37149), (27, 37152), (28, 37260), (29, 37287), (30, 37305), (31, 37353), (32, 37368), (33, 37509), (34, 37527), (35, 37530), (36, 37572), (37, 37602), (39, 37683), (40, 37701),

Gene: Kubulix_50 Start: 35821, Stop: 37518, Start Num: 1

Candidate Starts for Kubulix_50:

(Start: 1 @35821 has 12 MA's), (2, 35857), (3, 35863), (4, 35875), (5, 35959), (7, 36025), (8, 36166), (9, 36181), (11, 36259), (12, 36295), (13, 36313), (14, 36403), (15, 36415), (16, 36418), (17, 36433), (19, 36622), (20, 36637), (22, 36736), (23, 36778), (24, 36793), (26, 36916), (27, 36919), (28, 37027), (29, 37054), (30, 37072), (31, 37120), (32, 37135), (33, 37276), (34, 37294), (35, 37297), (36, 37339), (37, 37369), (39, 37450), (40, 37468),

Gene: MellowYellow_46 Start: 34714, Stop: 36411, Start Num: 1

Candidate Starts for MellowYellow_46:

(Start: 1 @34714 has 12 MA's), (2, 34750), (3, 34756), (4, 34768), (5, 34852), (7, 34918), (8, 35059), (9, 35074), (10, 35122), (11, 35152), (12, 35188), (13, 35206), (14, 35296), (15, 35308), (16, 35311), (17, 35326), (20, 35530), (24, 35686), (26, 35809), (28, 35920), (29, 35947), (31, 36013), (32, 36028), (33, 36169), (34, 36187), (35, 36190), (36, 36232), (37, 36262), (39, 36343), (40, 36361),

Gene: NyleyClemson_44 Start: 34329, Stop: 36026, Start Num: 1

Candidate Starts for NyleyClemson_44:

(Start: 1 @34329 has 12 MA's), (2, 34365), (3, 34371), (4, 34383), (5, 34467), (7, 34533), (8, 34674), (9, 34689), (11, 34767), (13, 34821), (14, 34911), (15, 34923), (16, 34926), (17, 34941), (19, 35130), (20, 35145), (22, 35244), (23, 35286), (24, 35301), (26, 35424), (27, 35427), (28, 35535), (29, 35562), (30, 35580), (31, 35628), (32, 35643), (33, 35784), (34, 35802), (35, 35805), (36, 35847), (37, 35877), (38, 35901), (39, 35958), (40, 35976),

Gene: Odyssey395_51 Start: 35998, Stop: 37695, Start Num: 1

Candidate Starts for Odyssey395_51:

(Start: 1 @35998 has 12 MA's), (2, 36034), (3, 36040), (4, 36052), (5, 36136), (6, 36193), (7, 36202), (8, 36343), (9, 36358), (11, 36436), (12, 36472), (13, 36490), (14, 36580), (15, 36592), (16, 36595), (17, 36610), (18, 36784), (19, 36799), (20, 36814), (22, 36913), (23, 36955), (24, 36970), (26, 37093), (27, 37096), (28, 37204), (29, 37231), (30, 37249), (31, 37297), (32, 37312), (33, 37453), (34, 37471), (35, 37474), (36, 37516), (37, 37546), (39, 37627), (40, 37645),

Gene: PhuzzTulsa_46 Start: 35958, Stop: 37655, Start Num: 1

Candidate Starts for PhuzzTulsa_46:

(Start: 1 @35958 has 12 MA's), (2, 35994), (3, 36000), (4, 36012), (5, 36096), (7, 36162), (8, 36303), (9, 36318), (11, 36396), (12, 36432), (13, 36450), (14, 36540), (15, 36552), (16, 36555), (17, 36570), (20, 36774), (23, 36915), (24, 36930), (26, 37053), (27, 37056), (28, 37164), (29, 37191), (30, 37209), (31, 37257), (32, 37272), (33, 37413), (34, 37431), (35, 37434), (36, 37476), (37, 37506), (39, 37587), (40, 37605),

Gene: Pointis_48 Start: 35996, Stop: 37693, Start Num: 1

Candidate Starts for Pointis_48:

(Start: 1 @35996 has 12 MA's), (2, 36032), (3, 36038), (4, 36050), (5, 36134), (7, 36200), (8, 36341), (9, 36356), (11, 36434), (12, 36470), (13, 36488), (14, 36578), (15, 36590), (16, 36593), (17, 36608), (18, 36782), (19, 36797), (20, 36812), (21, 36842), (23, 36953), (24, 36968), (26, 37091), (27, 37094), (28, 37202), (29, 37229), (30, 37247), (31, 37295), (32, 37310), (33, 37451), (34, 37469), (35, 37472), (36, 37514), (37, 37544), (39, 37625), (40, 37643),

Gene: Popstraw_46 Start: 35782, Stop: 37479, Start Num: 1

Candidate Starts for Popstraw_46:

(Start: 1 @35782 has 12 MA's), (2, 35818), (3, 35824), (4, 35836), (5, 35920), (7, 35986), (8, 36127), (9, 36142), (11, 36220), (12, 36256), (13, 36274), (14, 36364), (15, 36376), (16, 36379), (17, 36394), (20, 36598), (23, 36739), (24, 36754), (26, 36877), (27, 36880), (28, 36988), (29, 37015), (30, 37033), (31, 37081), (32, 37096), (33, 37237), (34, 37255), (35, 37258), (36, 37300), (37, 37330), (39, 37411), (40, 37429),

Gene: Pureglobe5_50 Start: 36179, Stop: 37876, Start Num: 1

Candidate Starts for Pureglobe5_50:

(Start: 1 @36179 has 12 MA's), (2, 36215), (3, 36221), (4, 36233), (5, 36317), (7, 36383), (8, 36524), (9, 36539), (11, 36617), (12, 36653), (13, 36671), (15, 36773), (16, 36776), (17, 36791), (18, 36965), (19, 36980), (20, 36995), (22, 37094), (23, 37136), (24, 37151), (25, 37205), (26, 37274), (28, 37385), (29, 37412), (30, 37430), (31, 37478), (32, 37493), (33, 37634), (34, 37652), (35, 37655), (36, 37697), (37, 37727), (39, 37808), (40, 37826),

Gene: RIPWilbur_47 Start: 35312, Stop: 37009, Start Num: 1

Candidate Starts for RIPWilbur_47:

(Start: 1 @35312 has 12 MA's), (2, 35348), (3, 35354), (4, 35366), (5, 35450), (7, 35516), (8, 35657), (9, 35672), (11, 35750), (12, 35786), (13, 35804), (14, 35894), (15, 35906), (16, 35909), (17, 35924), (20, 36128), (22, 36227), (23, 36269), (24, 36284), (26, 36407), (27, 36410), (28, 36518), (29, 36545), (30, 36563), (31, 36611), (32, 36626), (33, 36767), (34, 36785), (35, 36788), (36, 36830), (37, 36860), (39, 36941), (40, 36959),

Gene: RazzB_45 Start: 34460, Stop: 36157, Start Num: 1

Candidate Starts for RazzB_45:

(Start: 1 @34460 has 12 MA's), (2, 34496), (3, 34502), (4, 34514), (5, 34598), (7, 34664), (8, 34805), (9, 34820), (10, 34868), (11, 34898), (12, 34934), (13, 34952), (14, 35042), (15, 35054), (16, 35057), (17, 35072), (20, 35276), (23, 35417), (24, 35432), (26, 35555), (28, 35666), (29, 35693), (31, 35759), (32, 35774), (33, 35915), (34, 35933), (35, 35936), (36, 35978), (37, 36008), (39, 36089), (40, 36107),