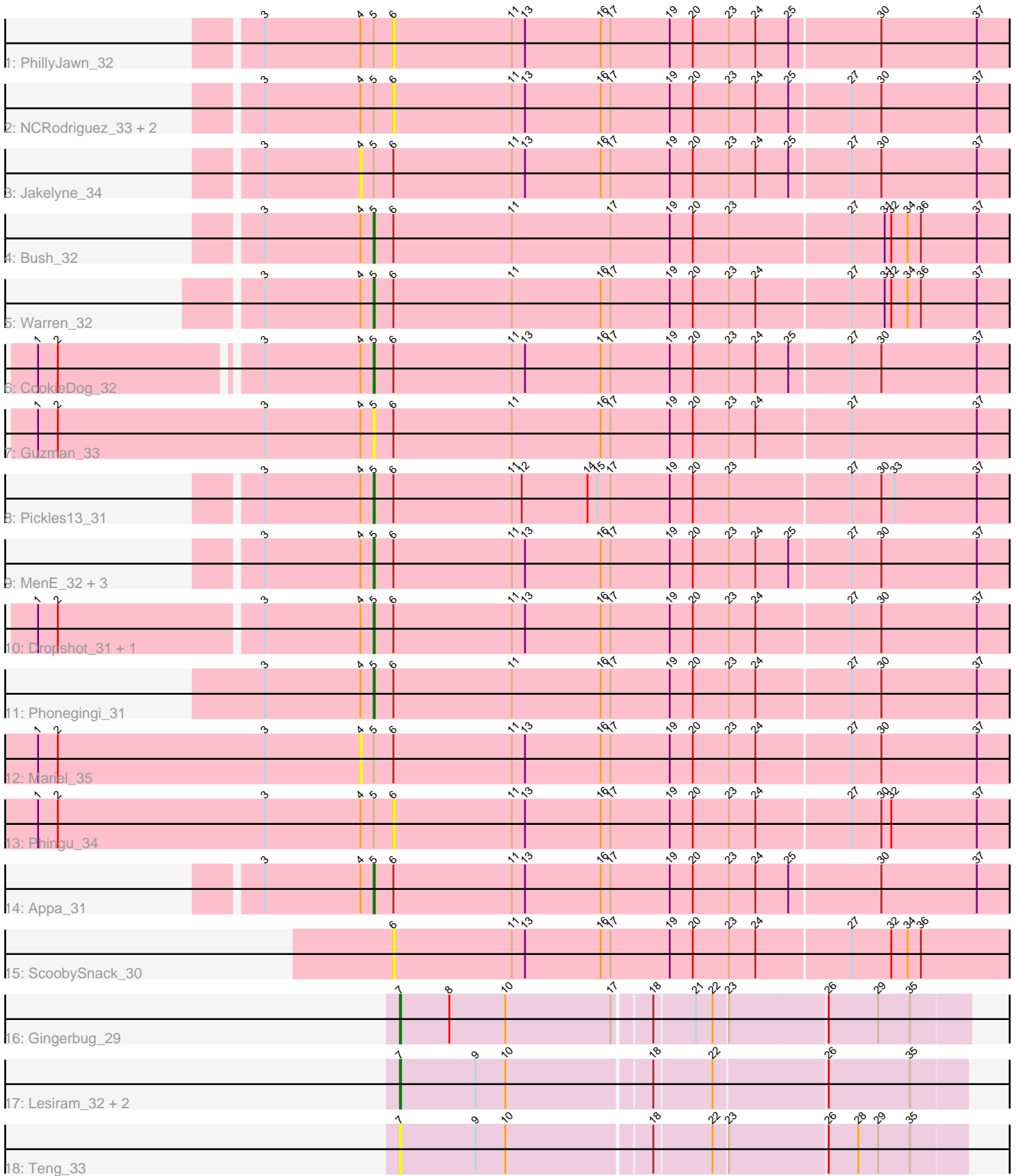


Pham 296877



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 296877 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296877 has 26 members, 12 are drafts.

Phages represented in each track:

- Track 1 : PhillyJawn_32
- Track 2 : NCRodriguez_33, Winchester007_47, Violeta_33
- Track 3 : Jakelyne_34
- Track 4 : Bush_32
- Track 5 : Warren_32
- Track 6 : CookieDog_32
- Track 7 : Guzman_33
- Track 8 : Pickles13_31
- Track 9 : MenE_32, Antuna_32, Carrillo_33, Losacky_33
- Track 10 : Dropshot_31, Blett_32
- Track 11 : Phonegingi_31
- Track 12 : Mariel_35
- Track 13 : Phingu_34
- Track 14 : Appa_31
- Track 15 : ScoobySnack_30
- Track 16 : Gingerbug_29
- Track 17 : Lesiram_32, Sweetums_31, DelaGarza_31
- Track 18 : Teng_33

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

The start number called the most often in the published annotations is 5, it was called in 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna_32, Appa_31, Blett_32, Bush_32, Carrillo_33, CookieDog_32, Dropshot_31, Guzman_33, Losacky_33, MenE_32, Phonegingi_31, Pickles13_31, Warren_32,

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

- Jakelyne_34, Mariel_35, NCRodriguez_33, PhillyJawn_32, Phingu_34, Violeta_33, Winchester007_47,

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

- DelaGarza_31, Gingerbug_29, Lesiram_32, ScoobySnack_30, Sweetums_31, Teng_33,

Summary by start number:

Start 4:

- Found in 20 of 26 (76.9%) of genes in pham
- No Manual Annotations of this start.
- Called 10.0% of time when present
- Phage (with cluster) where this start called: Jakelyne_34 (GA), Mariel_35 (GA),

Start 5:

- Found in 20 of 26 (76.9%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 65.0% of time when present
- Phage (with cluster) where this start called: Antuna_32 (GA), Appa_31 (GA), Blett_32 (GA), Bush_32 (GA), Carrillo_33 (GA), CookieDog_32 (GA), Dropshot_31 (GA), Guzman_33 (GA), Losacky_33 (GA), MenE_32 (GA), Phonegingi_31 (GA), Pickles13_31 (GA), Warren_32 (GA),

Start 6:

- Found in 21 of 26 (80.8%) of genes in pham
- No Manual Annotations of this start.
- Called 28.6% of time when present
- Phage (with cluster) where this start called: NCRodriguez_33 (GA), PhillyJawn_32 (GA), Phingu_34 (GA), ScoobySnack_30 (GA), Violeta_33 (GA), Winchester007_47 (GA),

Start 7:

- Found in 5 of 26 (19.2%) of genes in pham
- Manual Annotations of this start: 3 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_31 (GF), Gingerbug_29 (GF), Lesiram_32 (GF), Sweetums_31 (GF), Teng_33 (GF),

Summary by clusters:

There are 2 clusters represented in this pham: GF, GA,

Info for manual annotations of cluster GA:

- Start number 5 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 7 was manually annotated 3 times for cluster GF.

Gene Information:

Gene: Antuna_32 Start: 20537, Stop: 21118, Start Num: 5

Candidate Starts for Antuna_32:

(3, 20438), (4, 20525), (Start: 5 @20537 has 11 MA's), (6, 20555), (11, 20663), (13, 20675), (16, 20744), (17, 20753), (19, 20807), (20, 20828), (23, 20861), (24, 20885), (25, 20915), (27, 20969), (30,

20996), (37, 21083),

Gene: Appa_31 Start: 20411, Stop: 20992, Start Num: 5

Candidate Starts for Appa_31:

(3, 20312), (4, 20399), (Start: 5 @20411 has 11 MA's), (6, 20429), (11, 20537), (13, 20549), (16, 20618), (17, 20627), (19, 20681), (20, 20702), (23, 20735), (24, 20759), (25, 20789), (30, 20870), (37, 20957),

Gene: Blett_32 Start: 20558, Stop: 21139, Start Num: 5

Candidate Starts for Blett_32:

(1, 20261), (2, 20279), (3, 20459), (4, 20546), (Start: 5 @20558 has 11 MA's), (6, 20576), (11, 20684), (13, 20696), (16, 20765), (17, 20774), (19, 20828), (20, 20849), (23, 20882), (24, 20906), (27, 20990), (30, 21017), (37, 21104),

Gene: Bush_32 Start: 20536, Stop: 21117, Start Num: 5

Candidate Starts for Bush_32:

(3, 20437), (4, 20524), (Start: 5 @20536 has 11 MA's), (6, 20554), (11, 20662), (17, 20752), (19, 20806), (20, 20827), (23, 20860), (27, 20968), (31, 20998), (32, 21004), (34, 21019), (36, 21031), (37, 21082),

Gene: Carrillo_33 Start: 20515, Stop: 21096, Start Num: 5

Candidate Starts for Carrillo_33:

(3, 20416), (4, 20503), (Start: 5 @20515 has 11 MA's), (6, 20533), (11, 20641), (13, 20653), (16, 20722), (17, 20731), (19, 20785), (20, 20806), (23, 20839), (24, 20863), (25, 20893), (27, 20947), (30, 20974), (37, 21061),

Gene: CookieDog_32 Start: 20524, Stop: 21105, Start Num: 5

Candidate Starts for CookieDog_32:

(1, 20236), (2, 20254), (3, 20425), (4, 20512), (Start: 5 @20524 has 11 MA's), (6, 20542), (11, 20650), (13, 20662), (16, 20731), (17, 20740), (19, 20794), (20, 20815), (23, 20848), (24, 20872), (25, 20902), (27, 20956), (30, 20983), (37, 21070),

Gene: DelaGarza_31 Start: 21132, Stop: 21626, Start Num: 7

Candidate Starts for DelaGarza_31:

(Start: 7 @21132 has 3 MA's), (9, 21201), (10, 21228), (18, 21354), (22, 21405), (26, 21504), (35, 21576),

Gene: Dropshot_31 Start: 20408, Stop: 20989, Start Num: 5

Candidate Starts for Dropshot_31:

(1, 20111), (2, 20129), (3, 20309), (4, 20396), (Start: 5 @20408 has 11 MA's), (6, 20426), (11, 20534), (13, 20546), (16, 20615), (17, 20624), (19, 20678), (20, 20699), (23, 20732), (24, 20756), (27, 20840), (30, 20867), (37, 20954),

Gene: Gingerbug_29 Start: 21256, Stop: 21753, Start Num: 7

Candidate Starts for Gingerbug_29:

(Start: 7 @21256 has 3 MA's), (8, 21301), (10, 21352), (17, 21448), (18, 21478), (21, 21514), (22, 21529), (23, 21541), (26, 21628), (29, 21673), (35, 21700),

Gene: Guzman_33 Start: 20826, Stop: 21407, Start Num: 5

Candidate Starts for Guzman_33:

(1, 20520), (2, 20538), (3, 20727), (4, 20814), (Start: 5 @20826 has 11 MA's), (6, 20844), (11, 20952), (16, 21033), (17, 21042), (19, 21096), (20, 21117), (23, 21150), (24, 21174), (27, 21258), (37, 21372),

Gene: Jakelyne_34 Start: 20612, Stop: 21205, Start Num: 4

Candidate Starts for Jakelyne_34:

(3, 20525), (4, 20612), (Start: 5 @20624 has 11 MA's), (6, 20642), (11, 20750), (13, 20762), (16, 20831), (17, 20840), (19, 20894), (20, 20915), (23, 20948), (24, 20972), (25, 21002), (27, 21056), (30, 21083), (37, 21170),

Gene: Lesiram_32 Start: 21104, Stop: 21598, Start Num: 7

Candidate Starts for Lesiram_32:

(Start: 7 @21104 has 3 MA's), (9, 21173), (10, 21200), (18, 21326), (22, 21377), (26, 21476), (35, 21548),

Gene: Losacky_33 Start: 20688, Stop: 21269, Start Num: 5

Candidate Starts for Losacky_33:

(3, 20589), (4, 20676), (Start: 5 @20688 has 11 MA's), (6, 20706), (11, 20814), (13, 20826), (16, 20895), (17, 20904), (19, 20958), (20, 20979), (23, 21012), (24, 21036), (25, 21066), (27, 21120), (30, 21147), (37, 21234),

Gene: Mariel_35 Start: 20962, Stop: 21555, Start Num: 4

Candidate Starts for Mariel_35:

(1, 20668), (2, 20686), (3, 20875), (4, 20962), (Start: 5 @20974 has 11 MA's), (6, 20992), (11, 21100), (13, 21112), (16, 21181), (17, 21190), (19, 21244), (20, 21265), (23, 21298), (24, 21322), (27, 21406), (30, 21433), (37, 21520),

Gene: MenE_32 Start: 20676, Stop: 21257, Start Num: 5

Candidate Starts for MenE_32:

(3, 20577), (4, 20664), (Start: 5 @20676 has 11 MA's), (6, 20694), (11, 20802), (13, 20814), (16, 20883), (17, 20892), (19, 20946), (20, 20967), (23, 21000), (24, 21024), (25, 21054), (27, 21108), (30, 21135), (37, 21222),

Gene: NCRodriguez_33 Start: 20743, Stop: 21306, Start Num: 6

Candidate Starts for NCRodriguez_33:

(3, 20626), (4, 20713), (Start: 5 @20725 has 11 MA's), (6, 20743), (11, 20851), (13, 20863), (16, 20932), (17, 20941), (19, 20995), (20, 21016), (23, 21049), (24, 21073), (25, 21103), (27, 21157), (30, 21184), (37, 21271),

Gene: PhillyJawn_32 Start: 20426, Stop: 20989, Start Num: 6

Candidate Starts for PhillyJawn_32:

(3, 20309), (4, 20396), (Start: 5 @20408 has 11 MA's), (6, 20426), (11, 20534), (13, 20546), (16, 20615), (17, 20624), (19, 20678), (20, 20699), (23, 20732), (24, 20756), (25, 20786), (30, 20867), (37, 20954),

Gene: Phingu_34 Start: 20636, Stop: 21199, Start Num: 6

Candidate Starts for Phingu_34:

(1, 20312), (2, 20330), (3, 20519), (4, 20606), (Start: 5 @20618 has 11 MA's), (6, 20636), (11, 20744), (13, 20756), (16, 20825), (17, 20834), (19, 20888), (20, 20909), (23, 20942), (24, 20966), (27, 21050), (30, 21077), (32, 21086), (37, 21164),

Gene: Phonegingi_31 Start: 20430, Stop: 21011, Start Num: 5

Candidate Starts for Phonegingi_31:

(3, 20331), (4, 20418), (Start: 5 @20430 has 11 MA's), (6, 20448), (11, 20556), (16, 20637), (17, 20646), (19, 20700), (20, 20721), (23, 20754), (24, 20778), (27, 20862), (30, 20889), (37, 20976),

Gene: Pickles13_31 Start: 20838, Stop: 21419, Start Num: 5

Candidate Starts for Pickles13_31:

(3, 20739), (4, 20826), (Start: 5 @20838 has 11 MA's), (6, 20856), (11, 20964), (12, 20973), (14, 21033), (15, 21042), (17, 21054), (19, 21108), (20, 21129), (23, 21162), (27, 21270), (30, 21297), (33, 21309), (37, 21384),

Gene: ScoobySnack_30 Start: 20561, Stop: 21124, Start Num: 6

Candidate Starts for ScoobySnack_30:

(6, 20561), (11, 20669), (13, 20681), (16, 20750), (17, 20759), (19, 20813), (20, 20834), (23, 20867), (24, 20891), (27, 20975), (32, 21011), (34, 21026), (36, 21038),

Gene: Sweetums_31 Start: 21225, Stop: 21719, Start Num: 7

Candidate Starts for Sweetums_31:

(Start: 7 @21225 has 3 MA's), (9, 21294), (10, 21321), (18, 21447), (22, 21498), (26, 21597), (35, 21669),

Gene: Teng_33 Start: 21142, Stop: 21636, Start Num: 7

Candidate Starts for Teng_33:

(Start: 7 @21142 has 3 MA's), (9, 21211), (10, 21238), (18, 21364), (22, 21415), (23, 21427), (26, 21514), (28, 21541), (29, 21559), (35, 21586),

Gene: Violeta_33 Start: 20524, Stop: 21087, Start Num: 6

Candidate Starts for Violeta_33:

(3, 20407), (4, 20494), (Start: 5 @20506 has 11 MA's), (6, 20524), (11, 20632), (13, 20644), (16, 20713), (17, 20722), (19, 20776), (20, 20797), (23, 20830), (24, 20854), (25, 20884), (27, 20938), (30, 20965), (37, 21052),

Gene: Warren_32 Start: 20606, Stop: 21187, Start Num: 5

Candidate Starts for Warren_32:

(3, 20507), (4, 20594), (Start: 5 @20606 has 11 MA's), (6, 20624), (11, 20732), (16, 20813), (17, 20822), (19, 20876), (20, 20897), (23, 20930), (24, 20954), (27, 21038), (31, 21068), (32, 21074), (34, 21089), (36, 21101), (37, 21152),

Gene: Winchester007_47 Start: 26544, Stop: 27107, Start Num: 6

Candidate Starts for Winchester007_47:

(3, 26427), (4, 26514), (Start: 5 @26526 has 11 MA's), (6, 26544), (11, 26652), (13, 26664), (16, 26733), (17, 26742), (19, 26796), (20, 26817), (23, 26850), (24, 26874), (25, 26904), (27, 26958), (30, 26985), (37, 27072),