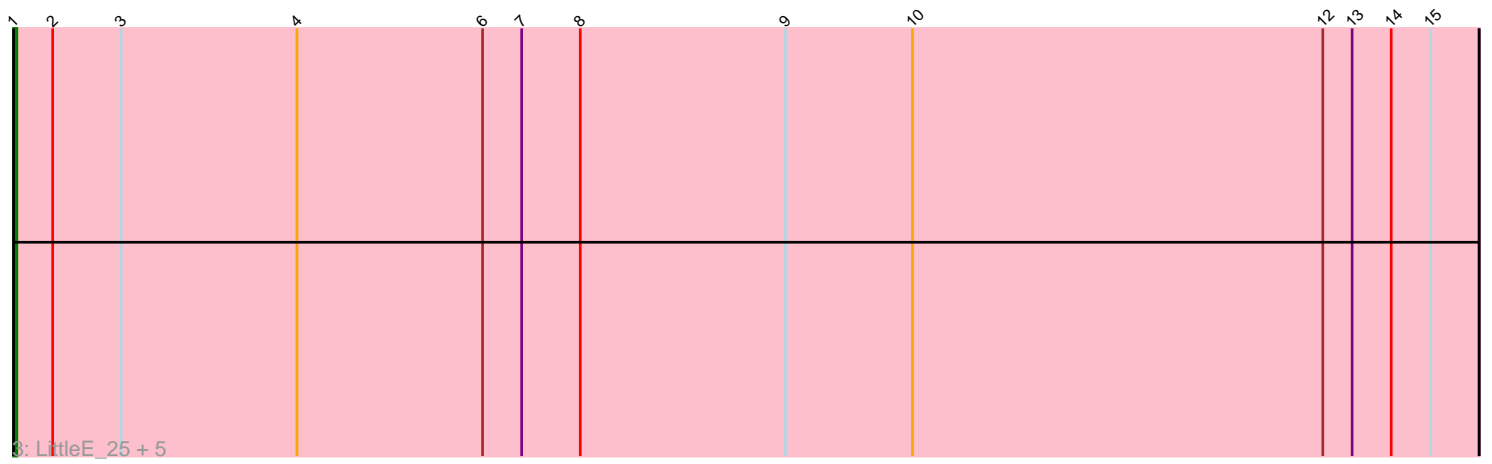
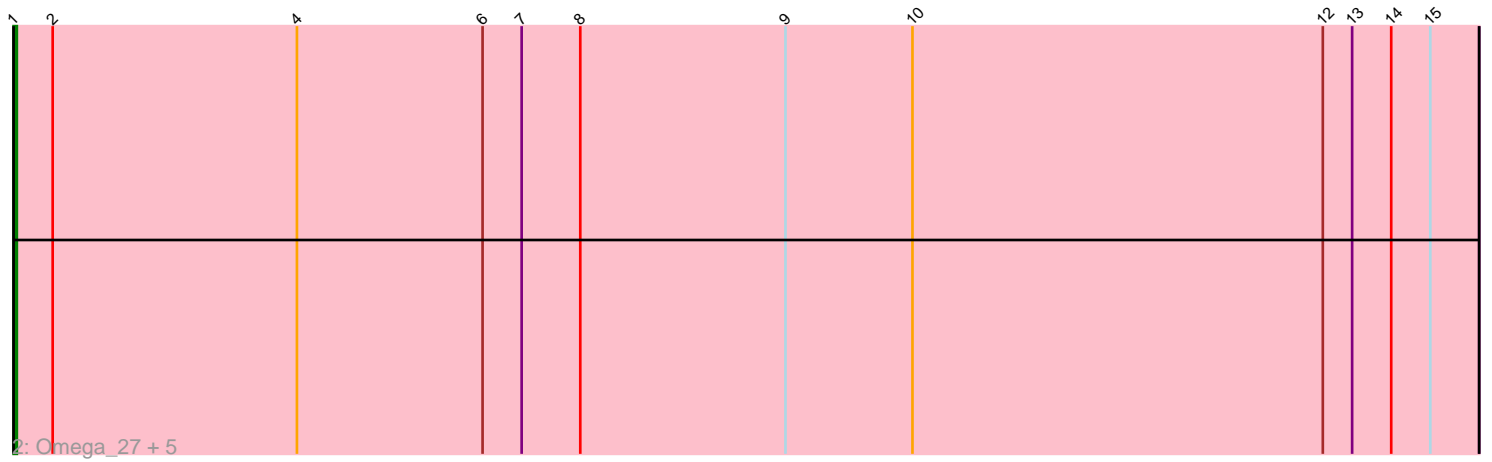
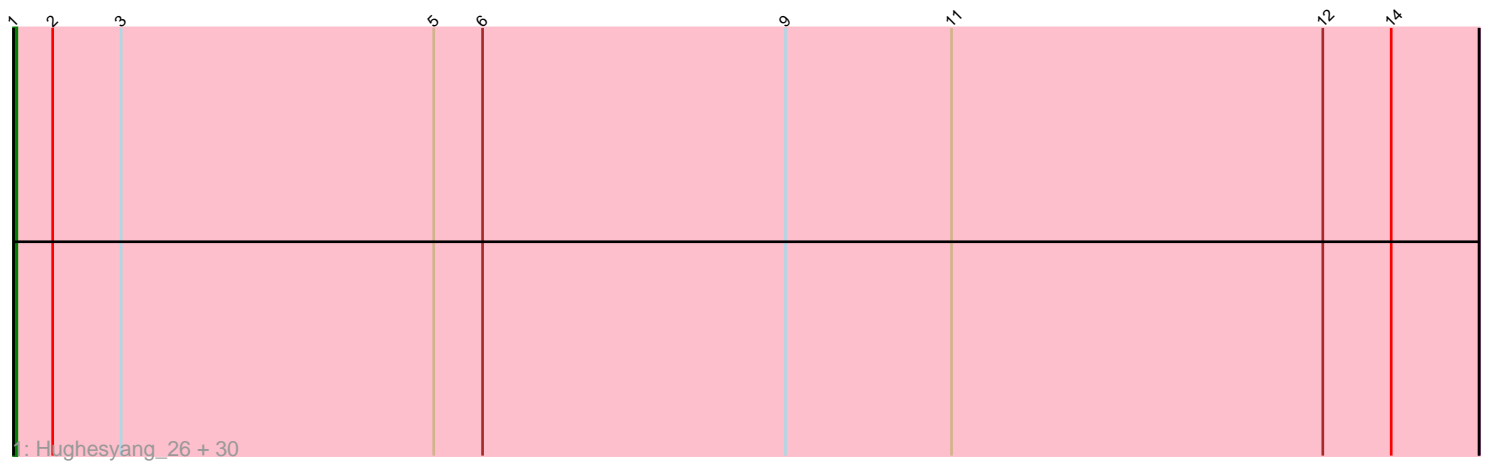


Pham 2251



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 2251 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2251 has 43 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Hughesyang_26, Dallas_27, Halley_27, BAKA_24, Constella_22, JuicyJay_29, Minerva_27, Yeet_25, Klein_27, Wanda_28, Bobby_28, ThreeRngTarjay_26, Redno2_26, DmpstrDiver_26, Odette_26, Zelink_28, EricMillard_27, Duke13_24, Bagrid_25, NihilNomen_26, Phoebus_27, HokkenD_22, Optimus_25, Pound_27, Kalah2_28, Beem_27, Schatzie_25, Thibault_23, Bombitas_24, Ejimix_28, Dove_26
- Track 2 : Omega_27, Courthouse_25, Hannaconda_22, Gonephishing_23, Squint_24, Lucky2013_25
- Track 3 : LittleE_25, Porcelain_25, Ariel_25, KashFlow_19, MiaZeal_25, Superphikiman_25

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 39 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_25, BAKA_24, Bagrid_25, Beem_27, Bobby_28, Bombitas_24, Constella_22, Courthouse_25, Dallas_27, DmpstrDiver_26, Dove_26, Duke13_24, Ejimix_28, EricMillard_27, Gonephishing_23, Halley_27, Hannaconda_22, HokkenD_22, Hughesyang_26, JuicyJay_29, Kalah2_28, KashFlow_19, Klein_27, LittleE_25, Lucky2013_25, MiaZeal_25, Minerva_27, NihilNomen_26, Odette_26, Omega_27, Optimus_25, Phoebus_27, Porcelain_25, Pound_27, Redno2_26, Schatzie_25, Squint_24, Superphikiman_25, Thibault_23, ThreeRngTarjay_26, Wanda_28, Yeet_25, Zelink_28,

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 43 of 43 (100.0%) of genes in pham
- Manual Annotations of this start: 39 of 39
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ariel_25 (J), BAKA_24 (J), Bagrid_25 (J), Beem_27 (J), Bobby_28 (J), Bombitas_24 (J), Constella_22 (J), Courthouse_25 (J), Dallas_27 (J), DmpstrDiver_26 (J), Dove_26 (J), Duke13_24 (J), Ejimix_28 (J), EricMillard_27 (J), Gonephishing_23 (J), Halley_27 (J), Hannaconda_22 (J), HokkenD_22 (J), Hughesyang_26 (J), JuicyJay_29 (J), Kalah2_28 (J), KashFlow_19 (J), Klein_27 (J), LittleE_25 (J), Lucky2013_25 (J), MiaZeal_25 (J), Minerva_27 (J), NihilNomen_26 (J), Odette_26 (J), Omega_27 (J), Optimus_25 (J), Phoebus_27 (J), Porcelain_25 (J), Pound_27 (J), Redno2_26 (J), Schatzie_25 (J), Squint_24 (J), Superphikiman_25 (J), Thibault_23 (J), ThreeRngTarjay_26 (J), Wanda_28 (J), Yeet_25 (J), Zelink_28 (J),

Summary by clusters:

There is one cluster represented in this pham: J

Info for manual annotations of cluster J:

- Start number 1 was manually annotated 39 times for cluster J.

Gene Information:

Gene: Ariel_25 Start: 14438, Stop: 14887, Start Num: 1

Candidate Starts for Ariel_25:

(Start: 1 @14438 has 39 MA's), (2, 14450), (3, 14471), (4, 14525), (6, 14582), (7, 14594), (8, 14612), (9, 14675), (10, 14714), (12, 14840), (13, 14849), (14, 14861), (15, 14873),

Gene: BAKA_24 Start: 16545, Stop: 16994, Start Num: 1

Candidate Starts for BAKA_24:

(Start: 1 @16545 has 39 MA's), (2, 16557), (3, 16578), (5, 16674), (6, 16689), (9, 16782), (11, 16833), (12, 16947), (14, 16968),

Gene: Bagrid_25 Start: 16334, Stop: 16783, Start Num: 1

Candidate Starts for Bagrid_25:

(Start: 1 @16334 has 39 MA's), (2, 16346), (3, 16367), (5, 16463), (6, 16478), (9, 16571), (11, 16622), (12, 16736), (14, 16757),

Gene: Beem_27 Start: 16900, Stop: 17349, Start Num: 1

Candidate Starts for Beem_27:

(Start: 1 @16900 has 39 MA's), (2, 16912), (3, 16933), (5, 17029), (6, 17044), (9, 17137), (11, 17188), (12, 17302), (14, 17323),

Gene: Bobby_28 Start: 16853, Stop: 17302, Start Num: 1

Candidate Starts for Bobby_28:

(Start: 1 @16853 has 39 MA's), (2, 16865), (3, 16886), (5, 16982), (6, 16997), (9, 17090), (11, 17141), (12, 17255), (14, 17276),

Gene: Bombitas_24 Start: 16210, Stop: 16659, Start Num: 1

Candidate Starts for Bombitas_24:

(Start: 1 @16210 has 39 MA's), (2, 16222), (3, 16243), (5, 16339), (6, 16354), (9, 16447), (11, 16498), (12, 16612), (14, 16633),

Gene: Constella_22 Start: 15723, Stop: 16172, Start Num: 1

Candidate Starts for Constella_22:

(Start: 1 @15723 has 39 MA's), (2, 15735), (3, 15756), (5, 15852), (6, 15867), (9, 15960), (11, 16011), (12, 16125), (14, 16146),

Gene: Courthouse_25 Start: 14840, Stop: 15289, Start Num: 1

Candidate Starts for Courthouse_25:

(Start: 1 @14840 has 39 MA's), (2, 14852), (4, 14927), (6, 14984), (7, 14996), (8, 15014), (9, 15077), (10, 15116), (12, 15242), (13, 15251), (14, 15263), (15, 15275),

Gene: Dallas_27 Start: 16440, Stop: 16889, Start Num: 1

Candidate Starts for Dallas_27:

(Start: 1 @16440 has 39 MA's), (2, 16452), (3, 16473), (5, 16569), (6, 16584), (9, 16677), (11, 16728), (12, 16842), (14, 16863),

Gene: DmpstrDiver_26 Start: 17076, Stop: 17525, Start Num: 1

Candidate Starts for DmpstrDiver_26:

(Start: 1 @17076 has 39 MA's), (2, 17088), (3, 17109), (5, 17205), (6, 17220), (9, 17313), (11, 17364), (12, 17478), (14, 17499),

Gene: Dove_26 Start: 16209, Stop: 16658, Start Num: 1

Candidate Starts for Dove_26:

(Start: 1 @16209 has 39 MA's), (2, 16221), (3, 16242), (5, 16338), (6, 16353), (9, 16446), (11, 16497), (12, 16611), (14, 16632),

Gene: Duke13_24 Start: 16474, Stop: 16923, Start Num: 1

Candidate Starts for Duke13_24:

(Start: 1 @16474 has 39 MA's), (2, 16486), (3, 16507), (5, 16603), (6, 16618), (9, 16711), (11, 16762), (12, 16876), (14, 16897),

Gene: Ejimix_28 Start: 17650, Stop: 18099, Start Num: 1

Candidate Starts for Ejimix_28:

(Start: 1 @17650 has 39 MA's), (2, 17662), (3, 17683), (5, 17779), (6, 17794), (9, 17887), (11, 17938), (12, 18052), (14, 18073),

Gene: EricMillard_27 Start: 17186, Stop: 17635, Start Num: 1

Candidate Starts for EricMillard_27:

(Start: 1 @17186 has 39 MA's), (2, 17198), (3, 17219), (5, 17315), (6, 17330), (9, 17423), (11, 17474), (12, 17588), (14, 17609),

Gene: Gonephishing_23 Start: 15013, Stop: 15462, Start Num: 1

Candidate Starts for Gonephishing_23:

(Start: 1 @15013 has 39 MA's), (2, 15025), (4, 15100), (6, 15157), (7, 15169), (8, 15187), (9, 15250), (10, 15289), (12, 15415), (13, 15424), (14, 15436), (15, 15448),

Gene: Halley_27 Start: 16899, Stop: 17348, Start Num: 1

Candidate Starts for Halley_27:

(Start: 1 @16899 has 39 MA's), (2, 16911), (3, 16932), (5, 17028), (6, 17043), (9, 17136), (11, 17187), (12, 17301), (14, 17322),

Gene: Hannaconda_22 Start: 13520, Stop: 13969, Start Num: 1

Candidate Starts for Hannaconda_22:

(Start: 1 @13520 has 39 MA's), (2, 13532), (4, 13607), (6, 13664), (7, 13676), (8, 13694), (9, 13757), (10, 13796), (12, 13922), (13, 13931), (14, 13943), (15, 13955),

Gene: HokkenD_22 Start: 16469, Stop: 16918, Start Num: 1

Candidate Starts for HokkenD_22:

(Start: 1 @16469 has 39 MA's), (2, 16481), (3, 16502), (5, 16598), (6, 16613), (9, 16706), (11, 16757), (12, 16871), (14, 16892),

Gene: Hughesyang_26 Start: 17082, Stop: 17531, Start Num: 1

Candidate Starts for Hughesyang_26:

(Start: 1 @17082 has 39 MA's), (2, 17094), (3, 17115), (5, 17211), (6, 17226), (9, 17319), (11, 17370), (12, 17484), (14, 17505),

Gene: JuicyJay_29 Start: 17733, Stop: 18182, Start Num: 1

Candidate Starts for JuicyJay_29:

(Start: 1 @17733 has 39 MA's), (2, 17745), (3, 17766), (5, 17862), (6, 17877), (9, 17970), (11, 18021), (12, 18135), (14, 18156),

Gene: Kalah2_28 Start: 17501, Stop: 17950, Start Num: 1

Candidate Starts for Kalah2_28:

(Start: 1 @17501 has 39 MA's), (2, 17513), (3, 17534), (5, 17630), (6, 17645), (9, 17738), (11, 17789), (12, 17903), (14, 17924),

Gene: KashFlow_19 Start: 13086, Stop: 13535, Start Num: 1

Candidate Starts for KashFlow_19:

(Start: 1 @13086 has 39 MA's), (2, 13098), (3, 13119), (4, 13173), (6, 13230), (7, 13242), (8, 13260), (9, 13323), (10, 13362), (12, 13488), (13, 13497), (14, 13509), (15, 13521),

Gene: Klein_27 Start: 16479, Stop: 16928, Start Num: 1

Candidate Starts for Klein_27:

(Start: 1 @16479 has 39 MA's), (2, 16491), (3, 16512), (5, 16608), (6, 16623), (9, 16716), (11, 16767), (12, 16881), (14, 16902),

Gene: LittleE_25 Start: 16225, Stop: 16674, Start Num: 1

Candidate Starts for LittleE_25:

(Start: 1 @16225 has 39 MA's), (2, 16237), (3, 16258), (4, 16312), (6, 16369), (7, 16381), (8, 16399), (9, 16462), (10, 16501), (12, 16627), (13, 16636), (14, 16648), (15, 16660),

Gene: Lucky2013_25 Start: 14968, Stop: 15417, Start Num: 1

Candidate Starts for Lucky2013_25:

(Start: 1 @14968 has 39 MA's), (2, 14980), (4, 15055), (6, 15112), (7, 15124), (8, 15142), (9, 15205), (10, 15244), (12, 15370), (13, 15379), (14, 15391), (15, 15403),

Gene: MiaZeal_25 Start: 14659, Stop: 15108, Start Num: 1

Candidate Starts for MiaZeal_25:

(Start: 1 @14659 has 39 MA's), (2, 14671), (3, 14692), (4, 14746), (6, 14803), (7, 14815), (8, 14833), (9, 14896), (10, 14935), (12, 15061), (13, 15070), (14, 15082), (15, 15094),

Gene: Minerva_27 Start: 16964, Stop: 17413, Start Num: 1

Candidate Starts for Minerva_27:

(Start: 1 @16964 has 39 MA's), (2, 16976), (3, 16997), (5, 17093), (6, 17108), (9, 17201), (11, 17252), (12, 17366), (14, 17387),

Gene: NihilNomen_26 Start: 16961, Stop: 17410, Start Num: 1

Candidate Starts for NihilNomen_26:

(Start: 1 @16961 has 39 MA's), (2, 16973), (3, 16994), (5, 17090), (6, 17105), (9, 17198), (11, 17249), (12, 17363), (14, 17384),

Gene: Odette_26 Start: 16442, Stop: 16891, Start Num: 1

Candidate Starts for Odette_26:

(Start: 1 @16442 has 39 MA's), (2, 16454), (3, 16475), (5, 16571), (6, 16586), (9, 16679), (11, 16730), (12, 16844), (14, 16865),

Gene: Omega_27 Start: 18585, Stop: 19034, Start Num: 1

Candidate Starts for Omega_27:

(Start: 1 @18585 has 39 MA's), (2, 18597), (4, 18672), (6, 18729), (7, 18741), (8, 18759), (9, 18822), (10, 18861), (12, 18987), (13, 18996), (14, 19008), (15, 19020),

Gene: Optimus_25 Start: 16539, Stop: 16988, Start Num: 1

Candidate Starts for Optimus_25:

(Start: 1 @16539 has 39 MA's), (2, 16551), (3, 16572), (5, 16668), (6, 16683), (9, 16776), (11, 16827), (12, 16941), (14, 16962),

Gene: Phoebus_27 Start: 17186, Stop: 17635, Start Num: 1

Candidate Starts for Phoebus_27:

(Start: 1 @17186 has 39 MA's), (2, 17198), (3, 17219), (5, 17315), (6, 17330), (9, 17423), (11, 17474), (12, 17588), (14, 17609),

Gene: Porcelain_25 Start: 14659, Stop: 15108, Start Num: 1

Candidate Starts for Porcelain_25:

(Start: 1 @14659 has 39 MA's), (2, 14671), (3, 14692), (4, 14746), (6, 14803), (7, 14815), (8, 14833), (9, 14896), (10, 14935), (12, 15061), (13, 15070), (14, 15082), (15, 15094),

Gene: Pound_27 Start: 17278, Stop: 17727, Start Num: 1

Candidate Starts for Pound_27:

(Start: 1 @17278 has 39 MA's), (2, 17290), (3, 17311), (5, 17407), (6, 17422), (9, 17515), (11, 17566), (12, 17680), (14, 17701),

Gene: Redno2_26 Start: 16670, Stop: 17119, Start Num: 1

Candidate Starts for Redno2_26:

(Start: 1 @16670 has 39 MA's), (2, 16682), (3, 16703), (5, 16799), (6, 16814), (9, 16907), (11, 16958), (12, 17072), (14, 17093),

Gene: Schatzie_25 Start: 16211, Stop: 16660, Start Num: 1

Candidate Starts for Schatzie_25:

(Start: 1 @16211 has 39 MA's), (2, 16223), (3, 16244), (5, 16340), (6, 16355), (9, 16448), (11, 16499), (12, 16613), (14, 16634),

Gene: Squint_24 Start: 14786, Stop: 15235, Start Num: 1

Candidate Starts for Squint_24:

(Start: 1 @14786 has 39 MA's), (2, 14798), (4, 14873), (6, 14930), (7, 14942), (8, 14960), (9, 15023), (10, 15062), (12, 15188), (13, 15197), (14, 15209), (15, 15221),

Gene: Superphikiman_25 Start: 14840, Stop: 15289, Start Num: 1

Candidate Starts for Superphikiman_25:

(Start: 1 @14840 has 39 MA's), (2, 14852), (3, 14873), (4, 14927), (6, 14984), (7, 14996), (8, 15014), (9, 15077), (10, 15116), (12, 15242), (13, 15251), (14, 15263), (15, 15275),

Gene: Thibault_23 Start: 16470, Stop: 16919, Start Num: 1

Candidate Starts for Thibault_23:

(Start: 1 @16470 has 39 MA's), (2, 16482), (3, 16503), (5, 16599), (6, 16614), (9, 16707), (11, 16758), (12, 16872), (14, 16893),

Gene: ThreeRngTarjay_26 Start: 17036, Stop: 17485, Start Num: 1

Candidate Starts for ThreeRngTarjay_26:

(Start: 1 @17036 has 39 MA's), (2, 17048), (3, 17069), (5, 17165), (6, 17180), (9, 17273), (11, 17324), (12, 17438), (14, 17459),

Gene: Wanda_28 Start: 16479, Stop: 16928, Start Num: 1

Candidate Starts for Wanda_28:

(Start: 1 @16479 has 39 MA's), (2, 16491), (3, 16512), (5, 16608), (6, 16623), (9, 16716), (11, 16767), (12, 16881), (14, 16902),

Gene: Yeet_25 Start: 16212, Stop: 16661, Start Num: 1

Candidate Starts for Yeet_25:

(Start: 1 @16212 has 39 MA's), (2, 16224), (3, 16245), (5, 16341), (6, 16356), (9, 16449), (11, 16500), (12, 16614), (14, 16635),

Gene: Zelink_28 Start: 17064, Stop: 17513, Start Num: 1

Candidate Starts for Zelink_28:

(Start: 1 @17064 has 39 MA's), (2, 17076), (3, 17097), (5, 17193), (6, 17208), (9, 17301), (11, 17352), (12, 17466), (14, 17487),