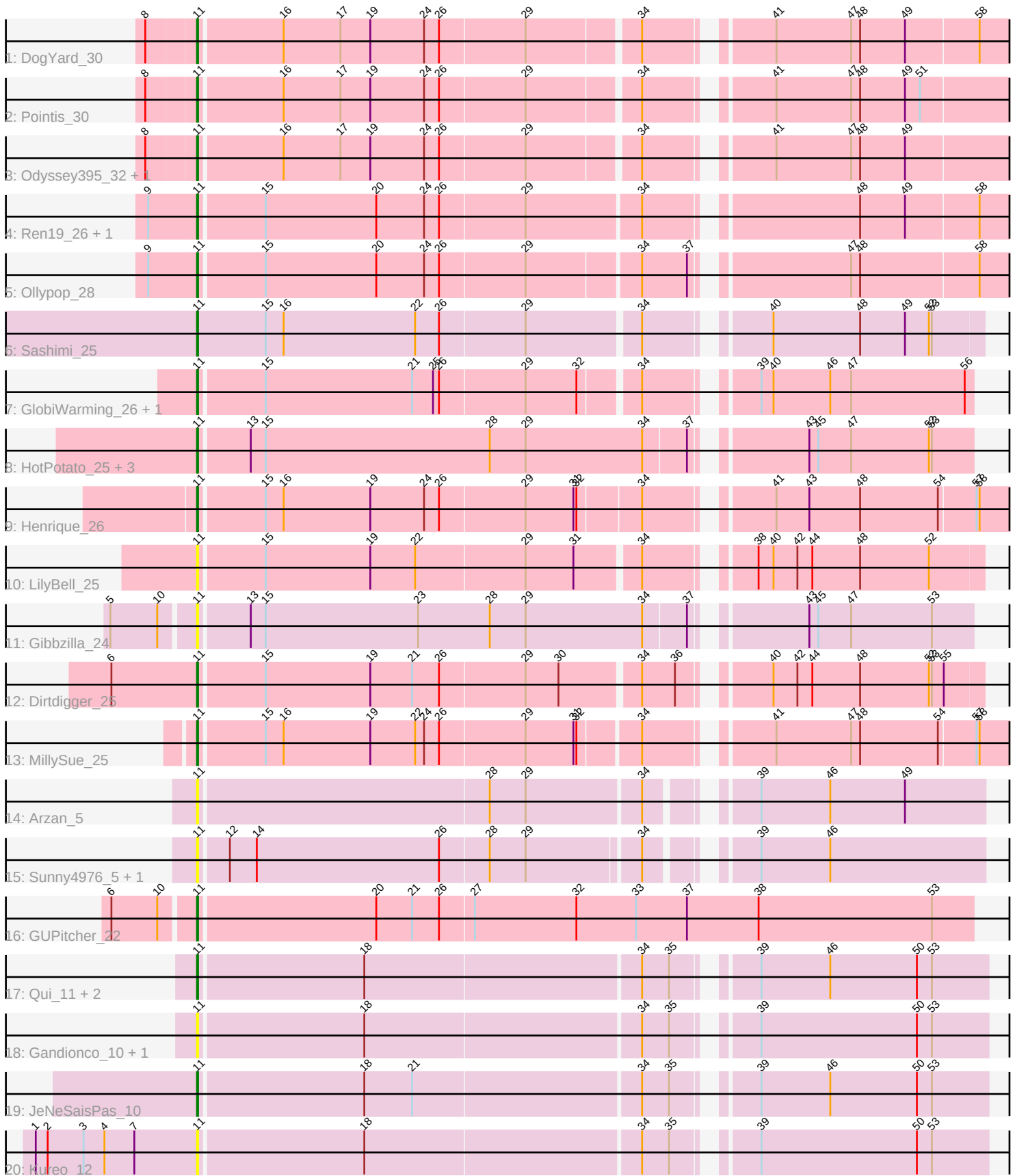


Pham 331109



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 331109 Report

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

Pham number 331109 has 30 members, 11 are drafts.

Phages represented in each track:

- Track 1 : DogYard_30
- Track 2 : Pointis_30
- Track 3 : Odyssey395_32, Popstraw_28
- Track 4 : Ren19_26, Nikan_25
- Track 5 : Ollypop_28
- Track 6 : Sashimi_25
- Track 7 : GlobiWarming_26, NikkiHotWheels_26
- Track 8 : HotPotato_25, Karkharias_25, Peas_25, Eileen_25
- Track 9 : Henrique_26
- Track 10 : LilyBell_25
- Track 11 : Gibbzilla_24
- Track 12 : Dirdigger_25
- Track 13 : MillySue_25
- Track 14 : Arzan_5
- Track 15 : Sunny4976_5, Jazzy4900_6
- Track 16 : GUPitcher_22
- Track 17 : Qui_11, Paella_11, Elver_11
- Track 18 : Gandionco_10, Marianna39_11
- Track 19 : JeNeSaisPas_10
- Track 20 : Kureo_12

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

The start number called the most often in the published annotations is 11, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arzan_5, Dirdigger_25, DogYard_30, Eileen_25, Elver_11, GUPitcher_22, Gandionco_10, Gibbzilla_24, GlobiWarming_26, Henrique_26, HotPotato_25, Jazzy4900_6, JeNeSaisPas_10, Karkharias_25, Kureo_12, LilyBell_25, Marianna39_11, MillySue_25, Nikan_25, NikkiHotWheels_26, Odyssey395_32, Ollypop_28, Paella_11, Peas_25, Pointis_30, Popstraw_28, Qui_11, Ren19_26, Sashimi_25, Sunny4976_5,

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 11:

- Found in 30 of 30 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arzan_5 (FI), DirtDigger_25 (FF), DogYard_30 (AP2), Eileen_25 (FA), Elver_11 (FK), GUPitcher_22 (FJ), Gandionco_10 (FK), Gibbzilla_24 (FB), GlobiWarming_26 (FA), Henrique_26 (FA), HotPotato_25 (FA), Jazzy4900_6 (FI), JeNeSaisPas_10 (FK), Karkharias_25 (FA), Kureo_12 (FK), LilyBell_25 (FA), Marianna39_11 (FK), MillySue_25 (FF), Nikan_25 (AP2), NikkiHotWheels_26 (FA), Odyssey395_32 (AP2), Ollypop_28 (AP2), Paella_11 (FK), Peas_25 (FA), Pointis_30 (AP2), Popstraw_28 (AP2), Qui_11 (FK), Ren19_26 (AP2), Sashimi_25 (AY), Sunny4976_5 (FI),

Summary by clusters:

There are 8 clusters represented in this pham: AP2, FA, FB, FF, AY, FI, FJ, FK,

Info for manual annotations of cluster AP2:

- Start number 11 was manually annotated 5 times for cluster AP2.

Info for manual annotations of cluster AY:

- Start number 11 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FA:

- Start number 11 was manually annotated 6 times for cluster FA.

Info for manual annotations of cluster FF:

- Start number 11 was manually annotated 2 times for cluster FF.

Info for manual annotations of cluster FJ:

- Start number 11 was manually annotated 1 time for cluster FJ.

Info for manual annotations of cluster FK:

- Start number 11 was manually annotated 4 times for cluster FK.

Gene Information:

Gene: Arzan_5 Start: 1979, Stop: 2716, Start Num: 11

Candidate Starts for Arzan_5:

(Start: 11 @1979 has 19 MA's), (28, 2264), (29, 2300), (34, 2411), (39, 2492), (46, 2561), (49, 2636),

Gene: DirtDigger_25 Start: 18754, Stop: 19494, Start Num: 11

Candidate Starts for DirtDigger_25:

(6, 18670), (Start: 11 @18754 has 19 MA's), (15, 18817), (19, 18922), (21, 18964), (26, 18991), (29, 19075), (30, 19108), (34, 19183), (36, 19216), (40, 19285), (42, 19309), (44, 19324), (48, 19372), (52, 19441), (53, 19444), (55, 19456),

Gene: DogYard_30 Start: 18309, Stop: 19082, Start Num: 11

Candidate Starts for DogYard_30:

(8, 18261), (Start: 11 @18309 has 19 MA's), (16, 18390), (17, 18447), (19, 18477), (24, 18531), (26, 18546), (29, 18630), (34, 18735), (41, 18840), (47, 18915), (48, 18924), (49, 18969), (58, 19041),

Gene: Eileen_25 Start: 19373, Stop: 20113, Start Num: 11

Candidate Starts for Eileen_25:

(Start: 11 @19373 has 19 MA's), (13, 19421), (15, 19436), (28, 19661), (29, 19697), (34, 19814), (37, 19856), (43, 19949), (45, 19958), (47, 19991), (52, 20069), (53, 20072),

Gene: Elver_11 Start: 5676, Stop: 6425, Start Num: 11

Candidate Starts for Elver_11:

(Start: 11 @5676 has 19 MA's), (18, 5838), (34, 6108), (35, 6135), (39, 6198), (46, 6267), (50, 6354), (53, 6369),

Gene: GUPitcher_22 Start: 17778, Stop: 18548, Start Num: 11

Candidate Starts for GUPitcher_22:

(6, 17700), (10, 17745), (Start: 11 @17778 has 19 MA's), (20, 17952), (21, 17988), (26, 18015), (27, 18048), (32, 18150), (33, 18210), (37, 18261), (38, 18333), (53, 18507),

Gene: Gandionco_10 Start: 5675, Stop: 6424, Start Num: 11

Candidate Starts for Gandionco_10:

(Start: 11 @5675 has 19 MA's), (18, 5837), (34, 6107), (35, 6134), (39, 6197), (50, 6353), (53, 6368),

Gene: Gibbzilla_24 Start: 15897, Stop: 16637, Start Num: 11

Candidate Starts for Gibbzilla_24:

(5, 15819), (10, 15864), (Start: 11 @15897 has 19 MA's), (13, 15945), (15, 15960), (23, 16113), (28, 16185), (29, 16221), (34, 16338), (37, 16380), (43, 16473), (45, 16482), (47, 16515), (53, 16596),

Gene: GlobiWarming_26 Start: 19354, Stop: 20082, Start Num: 11

Candidate Starts for GlobiWarming_26:

(Start: 11 @19354 has 19 MA's), (15, 19417), (21, 19564), (25, 19585), (26, 19591), (29, 19675), (32, 19726), (34, 19780), (39, 19870), (40, 19882), (46, 19939), (47, 19960), (56, 20074),

Gene: Henrique_26 Start: 19419, Stop: 20198, Start Num: 11

Candidate Starts for Henrique_26:

(Start: 11 @19419 has 19 MA's), (15, 19482), (16, 19500), (19, 19587), (24, 19641), (26, 19656), (29, 19740), (31, 19788), (32, 19791), (34, 19851), (41, 19956), (43, 19989), (48, 20040), (54, 20118), (57, 20154), (58, 20157),

Gene: HotPotato_25 Start: 19379, Stop: 20119, Start Num: 11

Candidate Starts for HotPotato_25:

(Start: 11 @19379 has 19 MA's), (13, 19427), (15, 19442), (28, 19667), (29, 19703), (34, 19820), (37, 19862), (43, 19955), (45, 19964), (47, 19997), (52, 20075), (53, 20078),

Gene: Jazzy4900_6 Start: 2005, Stop: 2739, Start Num: 11

Candidate Starts for Jazzy4900_6:

(Start: 11 @2005 has 19 MA's), (12, 2032), (14, 2059), (26, 2242), (28, 2290), (29, 2326), (34, 2434), (39, 2515), (46, 2584),

Gene: JeNeSaisPas_10 Start: 6208, Stop: 6957, Start Num: 11

Candidate Starts for JeNeSaisPas_10:

(Start: 11 @6208 has 19 MA's), (18, 6370), (21, 6418), (34, 6640), (35, 6667), (39, 6730), (46, 6799), (50, 6886), (53, 6901),

Gene: Karkharias_25 Start: 19375, Stop: 20115, Start Num: 11

Candidate Starts for Karkharias_25:

(Start: 11 @19375 has 19 MA's), (13, 19423), (15, 19438), (28, 19663), (29, 19699), (34, 19816), (37, 19858), (43, 19951), (45, 19960), (47, 19993), (52, 20071), (53, 20074),

Gene: Kureo_12 Start: 6079, Stop: 6828, Start Num: 11

Candidate Starts for Kureo_12:

(1, 5917), (2, 5929), (3, 5965), (4, 5986), (7, 6016), (Start: 11 @6079 has 19 MA's), (18, 6241), (34, 6511), (35, 6538), (39, 6601), (50, 6757), (53, 6772),

Gene: LilyBell_25 Start: 19391, Stop: 20131, Start Num: 11

Candidate Starts for LilyBell_25:

(Start: 11 @19391 has 19 MA's), (15, 19454), (19, 19559), (22, 19604), (29, 19712), (31, 19760), (34, 19820), (38, 19907), (40, 19922), (42, 19946), (44, 19961), (48, 20009), (52, 20078),

Gene: Marianna39_11 Start: 5675, Stop: 6424, Start Num: 11

Candidate Starts for Marianna39_11:

(Start: 11 @5675 has 19 MA's), (18, 5837), (34, 6107), (35, 6134), (39, 6197), (50, 6353), (53, 6368),

Gene: MillySue_25 Start: 18770, Stop: 19546, Start Num: 11

Candidate Starts for MillySue_25:

(Start: 11 @18770 has 19 MA's), (15, 18833), (16, 18851), (19, 18938), (22, 18983), (24, 18992), (26, 19007), (29, 19091), (31, 19139), (32, 19142), (34, 19199), (41, 19304), (47, 19379), (48, 19388), (54, 19466), (57, 19502), (58, 19505),

Gene: Nikan_25 Start: 17493, Stop: 18272, Start Num: 11

Candidate Starts for Nikan_25:

(9, 17445), (Start: 11 @17493 has 19 MA's), (15, 17556), (20, 17667), (24, 17715), (26, 17730), (29, 17814), (34, 17925), (48, 18114), (49, 18159), (58, 18231),

Gene: NikkiHotWheels_26 Start: 19375, Stop: 20103, Start Num: 11

Candidate Starts for NikkiHotWheels_26:

(Start: 11 @19375 has 19 MA's), (15, 19438), (21, 19585), (25, 19606), (26, 19612), (29, 19696), (32, 19747), (34, 19801), (39, 19891), (40, 19903), (46, 19960), (47, 19981), (56, 20095),

Gene: Odyssey395_32 Start: 18434, Stop: 19207, Start Num: 11

Candidate Starts for Odyssey395_32:

(8, 18386), (Start: 11 @18434 has 19 MA's), (16, 18515), (17, 18572), (19, 18602), (24, 18656), (26, 18671), (29, 18755), (34, 18860), (41, 18965), (47, 19040), (48, 19049), (49, 19094),

Gene: Ollypop_28 Start: 17518, Stop: 18294, Start Num: 11

Candidate Starts for Ollypop_28:

(9, 17470), (Start: 11 @17518 has 19 MA's), (15, 17581), (20, 17692), (24, 17740), (26, 17755), (29, 17839), (34, 17947), (37, 17992), (47, 18127), (48, 18136), (58, 18253),

Gene: Paella_11 Start: 5675, Stop: 6424, Start Num: 11

Candidate Starts for Paella_11:

(Start: 11 @5675 has 19 MA's), (18, 5837), (34, 6107), (35, 6134), (39, 6197), (46, 6266), (50, 6353), (53, 6368),

Gene: Peas_25 Start: 19373, Stop: 20113, Start Num: 11

Candidate Starts for Peas_25:

(Start: 11 @19373 has 19 MA's), (13, 19421), (15, 19436), (28, 19661), (29, 19697), (34, 19814), (37, 19856), (43, 19949), (45, 19958), (47, 19991), (52, 20069), (53, 20072),

Gene: Pointis_30 Start: 18438, Stop: 19211, Start Num: 11

Candidate Starts for Pointis_30:

(8, 18390), (Start: 11 @18438 has 19 MA's), (16, 18519), (17, 18576), (19, 18606), (24, 18660), (26, 18675), (29, 18759), (34, 18864), (41, 18969), (47, 19044), (48, 19053), (49, 19098), (51, 19113),

Gene: Popstraw_28 Start: 18224, Stop: 18997, Start Num: 11

Candidate Starts for Popstraw_28:

(8, 18176), (Start: 11 @18224 has 19 MA's), (16, 18305), (17, 18362), (19, 18392), (24, 18446), (26, 18461), (29, 18545), (34, 18650), (41, 18755), (47, 18830), (48, 18839), (49, 18884),

Gene: Qui_11 Start: 5675, Stop: 6424, Start Num: 11

Candidate Starts for Qui_11:

(Start: 11 @5675 has 19 MA's), (18, 5837), (34, 6107), (35, 6134), (39, 6197), (46, 6266), (50, 6353), (53, 6368),

Gene: Ren19_26 Start: 17493, Stop: 18272, Start Num: 11

Candidate Starts for Ren19_26:

(9, 17445), (Start: 11 @17493 has 19 MA's), (15, 17556), (20, 17667), (24, 17715), (26, 17730), (29, 17814), (34, 17925), (48, 18114), (49, 18159), (58, 18231),

Gene: Sashimi_25 Start: 18056, Stop: 18802, Start Num: 11

Candidate Starts for Sashimi_25:

(Start: 11 @18056 has 19 MA's), (15, 18125), (16, 18143), (22, 18275), (26, 18299), (29, 18383), (34, 18491), (40, 18593), (48, 18680), (49, 18725), (52, 18749), (53, 18752),

Gene: Sunny4976_5 Start: 2005, Stop: 2739, Start Num: 11

Candidate Starts for Sunny4976_5:

(Start: 11 @2005 has 19 MA's), (12, 2032), (14, 2059), (26, 2242), (28, 2290), (29, 2326), (34, 2434), (39, 2515), (46, 2584),