

Pham 331375



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 331375 Report

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

Pham number 331375 has 15 members, 2 are drafts.

Phages represented in each track:

- Track 1 : SunnyJune_3
- Track 2 : GoldDust_3, Gooberta_3
- Track 3 : Vibaki_4
- Track 4 : Music_4
- Track 5 : BlackJade_3
- Track 6 : Vitus_4
- Track 7 : JanetJ_35
- Track 8 : Hereford_36
- Track 9 : EvenBluerMoon_35, PrairieDogTown_36
- Track 10 : Hum25_56
- Track 11 : FuzzBuster_69
- Track 12 : Gilgamesh_137
- Track 13 : ChewyVIII_75

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

The start number called the most often in the published annotations is 13, it was called in 4 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlackJade_3, GoldDust_3, Gooberta_3, Music_4, Vibaki_4, Vitus_4,

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

- SunnyJune_3,

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

- ChewyVIII_75, EvenBluerMoon_35, FuzzBuster_69, Gilgamesh_137, Hereford_36, Hum25_56, JanetJ_35, PrairieDogTown_36,

Summary by start number:

Start 1:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 13

- Called 100.0% of time when present
- Phage (with cluster) where this start called: SunnyJune_3 (FL),

Start 8:

- Found in 4 of 15 (26.7%) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EvenBluerMoon_35 (FO), Hereford_36 (FO), JanetJ_35 (FO), PrairieDogTown_36 (FO),

Start 12:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hum25_56 (FQ1),

Start 13:

- Found in 7 of 15 (46.7%) of genes in pham
- Manual Annotations of this start: 4 of 13
- Called 85.7% of time when present
- Phage (with cluster) where this start called: BlackJade_3 (FL), GoldDust_3 (FL), Gooberta_3 (FL), Music_4 (FL), Vibaki_4 (FL), Vitus_4 (FL),

Start 14:

- Found in 2 of 15 (13.3%) of genes in pham
- Manual Annotations of this start: 2 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_75 (singleton), FuzzBuster_69 (GM),

Start 17:

- Found in 1 of 15 (6.7%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gilgamesh_137 (singleton),

Summary by clusters:

There are 5 clusters represented in this pham: GM, FQ1, FL, singleton, FO,

Info for manual annotations of cluster FL:

- Start number 1 was manually annotated 1 time for cluster FL.
- Start number 13 was manually annotated 4 times for cluster FL.

Info for manual annotations of cluster FO:

- Start number 8 was manually annotated 4 times for cluster FO.

Info for manual annotations of cluster FQ1:

- Start number 12 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster GM:

- Start number 14 was manually annotated 1 time for cluster GM.

Gene Information:

Gene: BlackJade_3 Start: 2028, Stop: 3266, Start Num: 13

Candidate Starts for BlackJade_3:

(9, 1980), (Start: 13 @2028 has 4 MA's), (21, 2121), (23, 2157), (27, 2208), (30, 2265), (31, 2301), (33, 2340), (34, 2358), (45, 2487), (46, 2496), (48, 2529), (51, 2562), (54, 2586), (59, 2703), (61, 2721), (67, 2802), (99, 3120), (104, 3168), (111, 3222), (113, 3252),

Gene: ChewyVIII_75 Start: 55068, Stop: 53818, Start Num: 14

Candidate Starts for ChewyVIII_75:

(Start: 14 @55068 has 2 MA's), (24, 54921), (28, 54894), (32, 54792), (35, 54762), (36, 54729), (46, 54624), (49, 54570), (52, 54555), (54, 54534), (55, 54510), (56, 54492), (61, 54399), (68, 54312), (72, 54213), (73, 54177), (77, 54132), (87, 54042), (99, 53910), (108, 53829), (109, 53826),

Gene: EvenBluerMoon_35 Start: 27808, Stop: 29394, Start Num: 8

Candidate Starts for EvenBluerMoon_35:

(Start: 8 @27808 has 4 MA's), (10, 27856), (21, 27994), (23, 28030), (38, 28258), (43, 28306), (44, 28324), (48, 28375), (58, 28489), (61, 28567), (91, 28906), (106, 29026), (115, 29197), (116, 29215), (120, 29326),

Gene: FuzzBuster_69 Start: 41767, Stop: 39908, Start Num: 14

Candidate Starts for FuzzBuster_69:

(Start: 14 @41767 has 2 MA's), (21, 41677), (22, 41659), (23, 41641), (24, 41620), (31, 41458), (45, 41269), (46, 41260), (48, 41227), (53, 41179), (54, 41170), (60, 41038), (61, 41032), (64, 41008), (66, 40972), (71, 40840), (82, 40651), (83, 40600), (84, 40588), (85, 40576), (86, 40540), (89, 40471), (95, 40408), (97, 40378), (98, 40354), (105, 40249), (114, 40090), (118, 40003), (119, 39955),

Gene: Gilgamesh_137 Start: 118223, Stop: 119593, Start Num: 17

Candidate Starts for Gilgamesh_137:

(6, 118043), (11, 118151), (15, 118217), (16, 118220), (Start: 17 @118223 has 1 MA's), (20, 118268), (21, 118277), (26, 118352), (43, 118619), (50, 118715), (63, 118898), (69, 118964), (74, 119111), (75, 119138), (78, 119180), (103, 119462), (110, 119513),

Gene: GoldDust_3 Start: 1973, Stop: 3220, Start Num: 13

Candidate Starts for GoldDust_3:

(Start: 13 @1973 has 4 MA's), (21, 2069), (23, 2105), (27, 2156), (29, 2195), (30, 2213), (31, 2249), (33, 2288), (38, 2360), (45, 2435), (46, 2444), (48, 2477), (49, 2498), (51, 2510), (57, 2585), (88, 2984), (93, 3029), (101, 3104),

Gene: Gooberta_3 Start: 1973, Stop: 3220, Start Num: 13

Candidate Starts for Gooberta_3:

(Start: 13 @1973 has 4 MA's), (21, 2069), (23, 2105), (27, 2156), (29, 2195), (30, 2213), (31, 2249), (33, 2288), (38, 2360), (45, 2435), (46, 2444), (48, 2477), (49, 2498), (51, 2510), (57, 2585), (88, 2984), (93, 3029), (101, 3104),

Gene: Hereford_36 Start: 27642, Stop: 29228, Start Num: 8

Candidate Starts for Hereford_36:

(Start: 8 @27642 has 4 MA's), (10, 27690), (21, 27828), (23, 27864), (38, 28092), (44, 28158), (48, 28209), (58, 28323), (61, 28401), (91, 28740), (106, 28860), (115, 29031), (116, 29049), (120, 29160),

Gene: Hum25_56 Start: 30981, Stop: 32510, Start Num: 12

Candidate Starts for Hum25_56:

(Start: 12 @30981 has 1 MA's), (18, 31053), (21, 31098), (23, 31134), (24, 31155), (31, 31251), (39, 31377), (41, 31389), (42, 31398), (44, 31428), (46, 31446), (47, 31455), (48, 31479), (50, 31506), (51, 31512), (59, 31653), (61, 31671), (62, 31683), (81, 31917), (91, 32010), (92, 32034), (96, 32055), (102, 32121), (110, 32184), (117, 32376), (119, 32448), (121, 32460), (122, 32487),

Gene: JanetJ_35 Start: 28312, Stop: 30129, Start Num: 8

Candidate Starts for JanetJ_35:

(Start: 8 @28312 has 4 MA's), (21, 28411), (23, 28447), (38, 28675), (44, 28741), (48, 28792), (57, 28900), (58, 28906), (61, 28984), (76, 29257), (79, 29302), (106, 29761), (107, 29767), (115, 29932), (116, 29950),

Gene: Music_4 Start: 2201, Stop: 3448, Start Num: 13

Candidate Starts for Music_4:

(2, 1982), (4, 2030), (Start: 13 @2201 has 4 MA's), (21, 2297), (23, 2333), (27, 2384), (29, 2423), (30, 2441), (31, 2477), (33, 2516), (38, 2588), (45, 2663), (46, 2672), (48, 2705), (49, 2726), (51, 2738), (57, 2813), (88, 3212), (93, 3257), (101, 3332),

Gene: PrairieDogTown_36 Start: 27810, Stop: 29396, Start Num: 8

Candidate Starts for PrairieDogTown_36:

(Start: 8 @27810 has 4 MA's), (10, 27858), (21, 27996), (23, 28032), (38, 28260), (43, 28308), (44, 28326), (48, 28377), (58, 28491), (61, 28569), (91, 28908), (106, 29028), (115, 29199), (116, 29217), (120, 29328),

Gene: SunnyJune_3 Start: 2021, Stop: 3454, Start Num: 1

Candidate Starts for SunnyJune_3:

(Start: 1 @2021 has 1 MA's), (3, 2042), (5, 2108), (7, 2141), (Start: 13 @2261 has 4 MA's), (19, 2342), (21, 2357), (23, 2393), (24, 2414), (30, 2453), (31, 2489), (40, 2618), (45, 2675), (46, 2684), (48, 2717), (49, 2738), (58, 2831), (61, 2909), (99, 3308), (104, 3356), (111, 3410), (113, 3440),

Gene: Vibaki_4 Start: 2231, Stop: 3478, Start Num: 13

Candidate Starts for Vibaki_4:

(2, 2012), (4, 2060), (Start: 13 @2231 has 4 MA's), (21, 2327), (23, 2363), (27, 2414), (29, 2453), (30, 2471), (31, 2507), (33, 2546), (38, 2618), (46, 2702), (48, 2735), (49, 2756), (51, 2768), (57, 2843), (88, 3242), (93, 3287), (101, 3362),

Gene: Vitus_4 Start: 2116, Stop: 3375, Start Num: 13

Candidate Starts for Vitus_4:

(Start: 13 @2116 has 4 MA's), (21, 2212), (23, 2248), (25, 2281), (30, 2356), (31, 2392), (37, 2494), (48, 2620), (59, 2794), (65, 2851), (70, 2953), (78, 3037), (80, 3049), (90, 3145), (94, 3178), (100, 3253), (112, 3352),