

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 170588 Report

This analysis was run 07/09/24 on database version 566.

Pham number 170588 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : C3PO_75, Cruella_75
- Track 2 : Stickynote_74
- Track 3 : Zion_75, PotatoChip_75, PeteyPab_74
- Track 4 : Darwin_77
- Track 5 : P1201_78

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

The start number called the most often in the published annotations is 2, it was called in 7 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- C3PO_75, Cruella_75, Darwin_77, PeteyPab_74, PotatoChip_75, Stickynote_74, Zion_75,

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

-

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

- P1201_78,

Summary by start number:

Start 1:

- Found in 1 of 8 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: P1201_78 (singleton),

Start 2:

- Found in 7 of 8 (87.5%) of genes in pham
- Manual Annotations of this start: 7 of 7
- Called 100.0% of time when present

• Phage (with cluster) where this start called: C3PO_75 (EN), Cruella_75 (EN), Darwin_77 (EN), PeteyPab_74 (EN), PotatoChip_75 (EN), Stickynote_74 (EN), Zion_75 (EN),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EN,

Info for manual annotations of cluster EN:

•Start number 2 was manually annotated 7 times for cluster EN.

Gene Information:

Gene: C3PO_75 Start: 57202, Stop: 54134, Start Num: 2

Candidate Starts for C3PO_75:

(Start: 2 @57202 has 7 MA's), (4, 57079), (10, 56848), (11, 56845), (13, 56701), (15, 56623), (17, 56539), (20, 56443), (21, 56437), (22, 56326), (23, 56302), (25, 56278), (27, 56242), (28, 56239), (30, 56086), (31, 56077), (33, 56032), (35, 55837), (38, 55783), (43, 55579), (45, 55534), (46, 55516), (47, 55447), (48, 55429), (50, 55282), (51, 55261), (54, 55201), (55, 55141), (59, 55000), (60, 54934), (61, 54928), (62, 54853), (63, 54790), (68, 54658), (72, 54601), (73, 54592), (77, 54496), (80, 54358), (81, 54334), (85, 54190), (87, 54142),

Gene: Cruella_75 Start: 57202, Stop: 54134, Start Num: 2

Candidate Starts for Cruella_75:

(Start: 2 @57202 has 7 MA's), (4, 57079), (10, 56848), (11, 56845), (13, 56701), (15, 56623), (17, 56539), (20, 56443), (21, 56437), (22, 56326), (23, 56302), (25, 56278), (27, 56242), (28, 56239), (30, 56086), (31, 56077), (33, 56032), (35, 55837), (38, 55783), (43, 55579), (45, 55534), (46, 55516), (47, 55447), (48, 55429), (50, 55282), (51, 55261), (54, 55201), (55, 55141), (59, 55000), (60, 54934), (61, 54928), (62, 54853), (63, 54790), (68, 54658), (72, 54601), (73, 54592), (77, 54496), (80, 54358), (81, 54334), (85, 54190), (87, 54142),

Gene: Darwin_77 Start: 57975, Stop: 54907, Start Num: 2

Candidate Starts for Darwin_77:

(Start: 2 @57975 has 7 MA's), (4, 57852), (11, 57618), (13, 57474), (15, 57396), (17, 57312), (18, 57303), (20, 57216), (22, 57099), (23, 57075), (25, 57051), (27, 57015), (28, 57012), (30, 56859), (31, 56850), (33, 56805), (35, 56610), (38, 56556), (43, 56352), (45, 56307), (46, 56289), (47, 56220), (48, 56202), (50, 56055), (51, 56034), (54, 55974), (55, 55914), (57, 55809), (59, 55773), (61, 55701), (62, 55626), (63, 55563), (68, 55431), (72, 55374), (74, 55347), (77, 55269), (80, 55131), (81, 55107), (83, 54990), (85, 54963), (87, 54915),

Gene: P1201_78 Start: 60988, Stop: 58391, Start Num: 1

Candidate Starts for P1201_78:

(1, 60988), (3, 60952), (5, 60832), (6, 60751), (7, 60709), (8, 60676), (9, 60628), (12, 60574), (14, 60460), (16, 60319), (17, 60316), (19, 60244), (22, 60103), (24, 60070), (26, 60031), (29, 59920), (31, 59854), (32, 59848), (34, 59740), (36, 59695), (39, 59668), (40, 59659), (41, 59605), (44, 59563), (52, 59446), (53, 59437), (56, 59389), (58, 59272), (62, 59116), (64, 59038), (65, 59035), (66, 59002), (67, 58984), (69, 58912), (70, 58906), (71, 58873), (78, 58723), (79, 58657), (81, 58591), (82, 58555), (86, 58420), (88, 58396),

Gene: PeteyPab_74 Start: 56997, Stop: 53929, Start Num: 2

Candidate Starts for PeteyPab_74:

(Start: 2 @56997 has 7 MA's), (4, 56874), (10, 56643), (11, 56640), (13, 56496), (15, 56418), (17, 56334), (18, 56325), (20, 56238), (21, 56232), (22, 56121), (23, 56097), (25, 56073), (27, 56037), (28, 56034), (30, 55881), (33, 55827), (35, 55632), (38, 55578), (41, 55455), (43, 55374), (45, 55329), (46, 55311), (47, 55242), (48, 55224), (50, 55077), (51, 55056), (54, 54996), (55, 54936), (59, 54795), (60, 54729), (61, 54723), (62, 54648), (63, 54585), (68, 54453), (72, 54396), (73, 54387), (75, 54351), (76, 54327), (77, 54291), (80, 54153), (81, 54129), (84, 53988), (87, 53937),

Gene: PotatoChip_75 Start: 56999, Stop: 53931, Start Num: 2

Candidate Starts for PotatoChip_75:

(Start: 2 @56999 has 7 MA's), (4, 56876), (10, 56645), (11, 56642), (13, 56498), (15, 56420), (17, 56336), (18, 56327), (20, 56240), (21, 56234), (22, 56123), (23, 56099), (25, 56075), (27, 56039), (28, 56036), (30, 55883), (33, 55829), (35, 55634), (38, 55580), (41, 55457), (43, 55376), (45, 55331), (46, 55313), (47, 55244), (48, 55226), (50, 55079), (51, 55058), (54, 54998), (55, 54938), (59, 54797), (60, 54731), (61, 54725), (62, 54650), (63, 54587), (68, 54455), (72, 54398), (73, 54389), (75, 54353), (76, 54329), (77, 54293), (80, 54155), (81, 54131), (84, 53990), (87, 53939),

Gene: Stickynote_74 Start: 57205, Stop: 54137, Start Num: 2

Candidate Starts for Stickynote_74:

(Start: 2 @57205 has 7 MA's), (4, 57082), (10, 56851), (11, 56848), (15, 56626), (17, 56542), (18, 56533), (20, 56446), (22, 56329), (23, 56305), (25, 56281), (27, 56245), (28, 56242), (30, 56089), (33, 56035), (35, 55840), (37, 55792), (38, 55786), (42, 55585), (46, 55519), (48, 55432), (49, 55318), (50, 55285), (54, 55204), (55, 55144), (59, 55003), (60, 54937), (61, 54931), (62, 54856), (63, 54793), (68, 54661), (72, 54604), (75, 54559), (76, 54535), (77, 54499), (80, 54361), (81, 54337), (85, 54193), (87, 54145),

Gene: Zion_75 Start: 56997, Stop: 53929, Start Num: 2

Candidate Starts for Zion_75:

(Start: 2 @56997 has 7 MA's), (4, 56874), (10, 56643), (11, 56640), (13, 56496), (15, 56418), (17, 56334), (18, 56325), (20, 56238), (21, 56232), (22, 56121), (23, 56097), (25, 56073), (27, 56037), (28, 56034), (30, 55881), (33, 55827), (35, 55632), (38, 55578), (41, 55455), (43, 55374), (45, 55329), (46, 55311), (47, 55242), (48, 55224), (50, 55077), (51, 55056), (54, 54996), (55, 54936), (59, 54795), (60, 54729), (61, 54723), (62, 54648), (63, 54585), (68, 54453), (72, 54396), (73, 54387), (75, 54351), (76, 54327), (77, 54291), (80, 54153), (81, 54129), (84, 53988), (87, 53937),