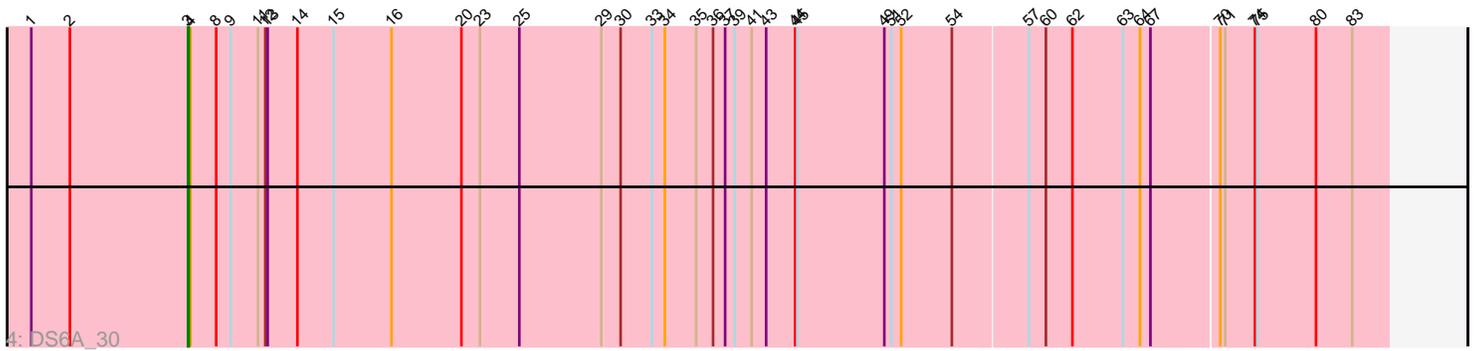
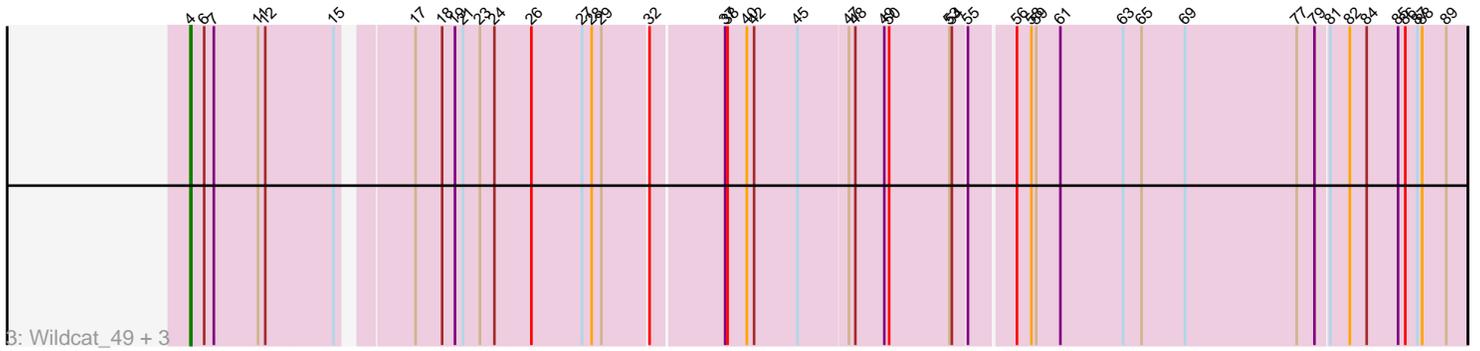
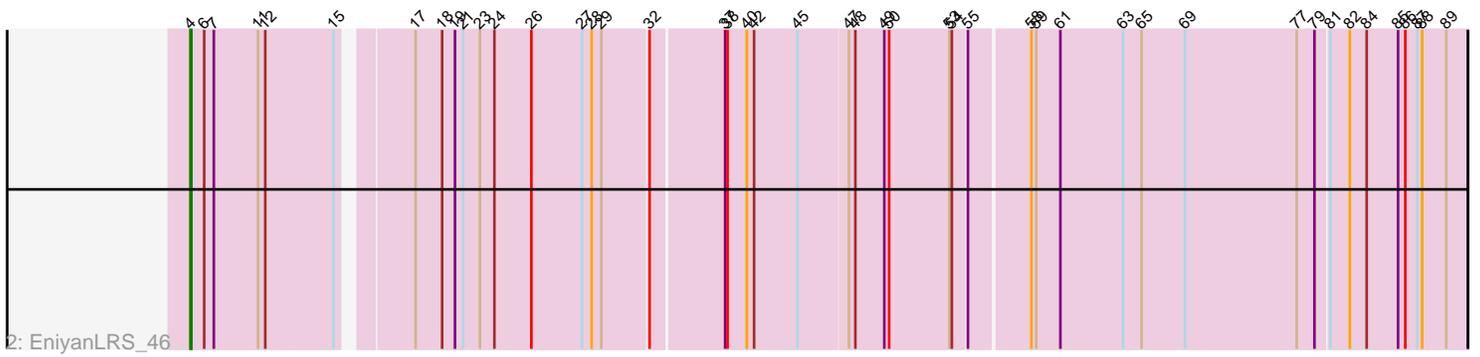
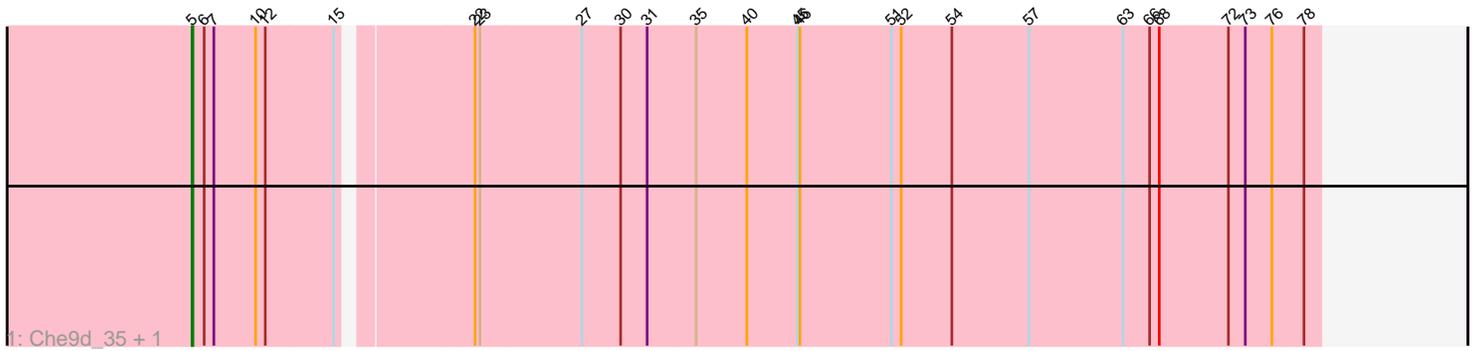


Pham 87902



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 87902 Report

This analysis was run 04/05/24 on database version 557.

Pham number 87902 has 8 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Che9d_35, Avani_35
- Track 2 : EniyanLRS_46
- Track 3 : Wildcat_49, Cosmo_49, Azrael100_48, MaryV_49
- Track 4 : DS6A_30

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

The start number called the most often in the published annotations is 4, it was called in 5 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Azrael100_48, Cosmo_49, EniyanLRS_46, MaryV_49, Wildcat_49,

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

- DS6A_30,

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

- Avani_35, Che9d_35,

Summary by start number:

Start 3:

- Found in 1 of 8 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DS6A_30 (singleton),

Start 4:

- Found in 6 of 8 (75.0%) of genes in pham
- Manual Annotations of this start: 5 of 8
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Azrael100_48 (V), Cosmo_49 (V), EniyanLRS_46 (V), MaryV_49 (V), Wildcat_49 (V),

Start 5:

- Found in 2 of 8 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Avani_35 (F2), Che9d_35 (F2),

Summary by clusters:

There are 3 clusters represented in this pham: singleton, F2, V,

Info for manual annotations of cluster F2:

- Start number 5 was manually annotated 2 times for cluster F2.

Info for manual annotations of cluster V:

- Start number 4 was manually annotated 5 times for cluster V.

Gene Information:

Gene: Avani_35 Start: 25446, Stop: 26810, Start Num: 5

Candidate Starts for Avani_35:

(Start: 5 @25446 has 2 MA's), (6, 25461), (7, 25473), (10, 25524), (12, 25536), (15, 25620), (22, 25767), (23, 25773), (27, 25899), (30, 25947), (31, 25980), (35, 26037), (40, 26100), (45, 26163), (46, 26166), (51, 26280), (52, 26292), (54, 26355), (57, 26451), (63, 26568), (66, 26601), (68, 26613), (72, 26697), (73, 26718), (76, 26751), (78, 26790),

Gene: Azrael100_48 Start: 36292, Stop: 37800, Start Num: 4

Candidate Starts for Azrael100_48:

(Start: 4 @36292 has 5 MA's), (6, 36307), (7, 36319), (11, 36373), (12, 36382), (15, 36466), (17, 36541), (18, 36574), (19, 36589), (21, 36598), (23, 36619), (24, 36637), (26, 36682), (27, 36745), (28, 36757), (29, 36769), (32, 36823), (37, 36910), (38, 36913), (40, 36934), (42, 36943), (45, 36997), (47, 37057), (48, 37063), (49, 37099), (50, 37105), (53, 37180), (54, 37183), (55, 37198), (56, 37249), (58, 37267), (59, 37273), (61, 37303), (63, 37381), (65, 37402), (69, 37456), (77, 37594), (79, 37615), (81, 37630), (82, 37654), (84, 37675), (85, 37714), (86, 37723), (87, 37738), (88, 37744), (89, 37774),

Gene: Che9d_35 Start: 25454, Stop: 26818, Start Num: 5

Candidate Starts for Che9d_35:

(Start: 5 @25454 has 2 MA's), (6, 25469), (7, 25481), (10, 25532), (12, 25544), (15, 25628), (22, 25775), (23, 25781), (27, 25907), (30, 25955), (31, 25988), (35, 26045), (40, 26108), (45, 26171), (46, 26174), (51, 26288), (52, 26300), (54, 26363), (57, 26459), (63, 26576), (66, 26609), (68, 26621), (72, 26705), (73, 26726), (76, 26759), (78, 26798),

Gene: Cosmo_49 Start: 36293, Stop: 37801, Start Num: 4

Candidate Starts for Cosmo_49:

(Start: 4 @36293 has 5 MA's), (6, 36308), (7, 36320), (11, 36374), (12, 36383), (15, 36467), (17, 36542), (18, 36575), (19, 36590), (21, 36599), (23, 36620), (24, 36638), (26, 36683), (27, 36746), (28, 36758), (29, 36770), (32, 36824), (37, 36911), (38, 36914), (40, 36935), (42, 36944), (45, 36998), (47, 37058), (48, 37064), (49, 37100), (50, 37106), (53, 37181), (54, 37184), (55, 37199), (56, 37250), (58, 37268), (59, 37274), (61, 37304), (63, 37382), (65, 37403), (69, 37457), (77, 37595), (79, 37616), (81, 37631), (82, 37655), (84, 37676), (85, 37715), (86, 37724), (87, 37739), (88, 37745), (89, 37775),

Gene: DS6A_30 Start: 25294, Stop: 26754, Start Num: 3

Candidate Starts for DS6A_30:

(1, 25099), (2, 25147), (Start: 3 @25294 has 1 MA's), (Start: 4 @25297 has 5 MA's), (8, 25327), (9, 25345), (11, 25378), (12, 25387), (13, 25390), (14, 25426), (15, 25471), (16, 25543), (20, 25630), (23, 25651), (25, 25699), (29, 25801), (30, 25819), (33, 25858), (34, 25873), (35, 25912), (36, 25933), (37, 25948), (39, 25960), (41, 25981), (43, 25999), (44, 26035), (45, 26038), (49, 26146), (51, 26155), (52, 26167), (54, 26230), (57, 26320), (60, 26341), (62, 26374), (63, 26437), (64, 26458), (67, 26470), (70, 26548), (71, 26554), (74, 26590), (75, 26593), (80, 26665), (83, 26710),

Gene: EniyanLRS_46 Start: 35991, Stop: 37499, Start Num: 4

Candidate Starts for EniyanLRS_46:

(Start: 4 @35991 has 5 MA's), (6, 36006), (7, 36018), (11, 36072), (12, 36081), (15, 36165), (17, 36240), (18, 36273), (19, 36288), (21, 36297), (23, 36318), (24, 36336), (26, 36381), (27, 36444), (28, 36456), (29, 36468), (32, 36522), (37, 36609), (38, 36612), (40, 36633), (42, 36642), (45, 36696), (47, 36756), (48, 36762), (49, 36798), (50, 36804), (53, 36879), (54, 36882), (55, 36897), (58, 36966), (59, 36972), (61, 37002), (63, 37080), (65, 37101), (69, 37155), (77, 37293), (79, 37314), (81, 37329), (82, 37353), (84, 37374), (85, 37413), (86, 37422), (87, 37437), (88, 37443), (89, 37473),

Gene: MaryV_49 Start: 36278, Stop: 37786, Start Num: 4

Candidate Starts for MaryV_49:

(Start: 4 @36278 has 5 MA's), (6, 36293), (7, 36305), (11, 36359), (12, 36368), (15, 36452), (17, 36527), (18, 36560), (19, 36575), (21, 36584), (23, 36605), (24, 36623), (26, 36668), (27, 36731), (28, 36743), (29, 36755), (32, 36809), (37, 36896), (38, 36899), (40, 36920), (42, 36929), (45, 36983), (47, 37043), (48, 37049), (49, 37085), (50, 37091), (53, 37166), (54, 37169), (55, 37184), (56, 37235), (58, 37253), (59, 37259), (61, 37289), (63, 37367), (65, 37388), (69, 37442), (77, 37580), (79, 37601), (81, 37616), (82, 37640), (84, 37661), (85, 37700), (86, 37709), (87, 37724), (88, 37730), (89, 37760),

Gene: Wildcat_49 Start: 36288, Stop: 37796, Start Num: 4

Candidate Starts for Wildcat_49:

(Start: 4 @36288 has 5 MA's), (6, 36303), (7, 36315), (11, 36369), (12, 36378), (15, 36462), (17, 36537), (18, 36570), (19, 36585), (21, 36594), (23, 36615), (24, 36633), (26, 36678), (27, 36741), (28, 36753), (29, 36765), (32, 36819), (37, 36906), (38, 36909), (40, 36930), (42, 36939), (45, 36993), (47, 37053), (48, 37059), (49, 37095), (50, 37101), (53, 37176), (54, 37179), (55, 37194), (56, 37245), (58, 37263), (59, 37269), (61, 37299), (63, 37377), (65, 37398), (69, 37452), (77, 37590), (79, 37611), (81, 37626), (82, 37650), (84, 37671), (85, 37710), (86, 37719), (87, 37734), (88, 37740), (89, 37770),