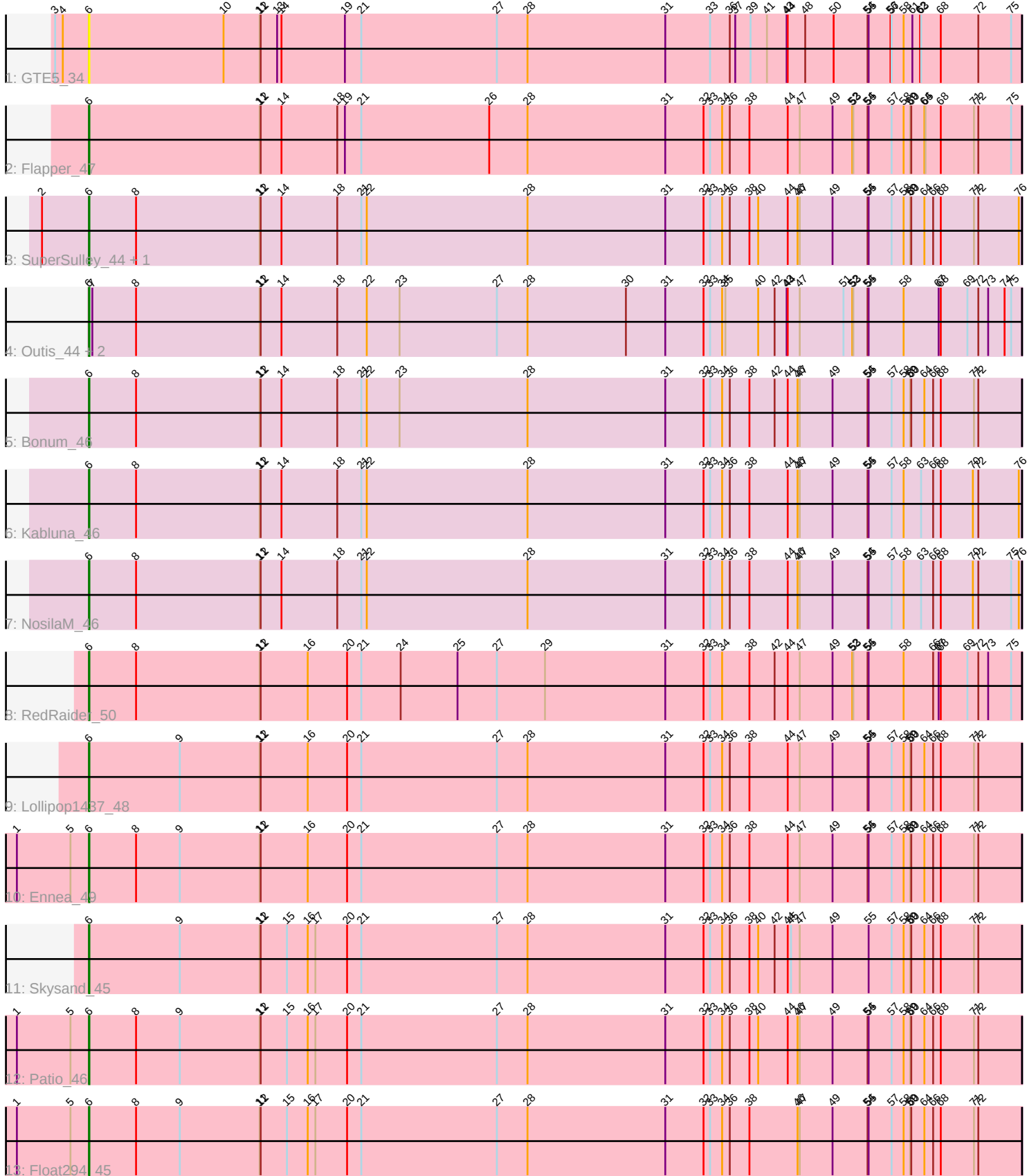


Pham 280984



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 280984 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280984 has 16 members, 1 are drafts.

Phages represented in each track:

- Track 1 : GTE5_34
- Track 2 : Flapper_47
- Track 3 : SuperSulley_44, Buggaboo_44
- Track 4 : Outis_44, MerCougar_44, StarStruck_44
- Track 5 : Bonum_46
- Track 6 : Kabluna_46
- Track 7 : NosilaM_46
- Track 8 : RedRaider_50
- Track 9 : Lollipop1437_48
- Track 10 : Ennea_49
- Track 11 : Skysand_45
- Track 12 : Patio_46
- Track 13 : Float294_45

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

The start number called the most often in the published annotations is 6, it was called in 15 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bonum_46, Buggaboo_44, Ennea_49, Flapper_47, Float294_45, GTE5_34, Kabluna_46, Lollipop1437_48, MerCougar_44, NosilaM_46, Outis_44, Patio_46, RedRaider_50, Skysand_45, StarStruck_44, SuperSulley_44,

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 6:

- Found in 16 of 16 (100.0%) of genes in pham

- Manual Annotations of this start: 15 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonum_46 (CR2), Buggaboo_44 (CR2), Ennea_49 (CR3), Flapper_47 (CR1), Float294_45 (CR3), GTE5_34 (CR1), Kabluna_46 (CR2), Lollipop1437_48 (CR3), MerCougar_44 (CR2), NosilaM_46 (CR2), Outis_44 (CR2), Patio_46 (CR3), RedRaider_50 (CR3), Skysand_45 (CR3), StarStruck_44 (CR2), SuperSulley_44 (CR2),

Summary by clusters:

There are 3 clusters represented in this pham: CR2, CR3, CR1,

Info for manual annotations of cluster CR1:

- Start number 6 was manually annotated 1 time for cluster CR1.

Info for manual annotations of cluster CR2:

- Start number 6 was manually annotated 8 times for cluster CR2.

Info for manual annotations of cluster CR3:

- Start number 6 was manually annotated 6 times for cluster CR3.

Gene Information:

Gene: Bonum_46 Start: 32908, Stop: 35466, Start Num: 6

Candidate Starts for Bonum_46:

(Start: 6 @32908 has 15 MA's), (8, 33037), (11, 33376), (12, 33379), (14, 33436), (18, 33589), (21, 33655), (22, 33670), (23, 33760), (28, 34111), (31, 34489), (32, 34594), (33, 34612), (34, 34645), (36, 34666), (38, 34720), (42, 34789), (44, 34825), (46, 34852), (47, 34858), (49, 34948), (54, 35044), (55, 35047), (57, 35110), (58, 35143), (59, 35161), (60, 35164), (64, 35200), (66, 35224), (68, 35245), (71, 35335), (72, 35347),

Gene: Buggaboo_44 Start: 33387, Stop: 35945, Start Num: 6

Candidate Starts for Buggaboo_44:

(2, 33258), (Start: 6 @33387 has 15 MA's), (8, 33516), (11, 33855), (12, 33858), (14, 33915), (18, 34068), (21, 34134), (22, 34149), (28, 34590), (31, 34968), (32, 35073), (33, 35091), (34, 35124), (36, 35145), (38, 35199), (40, 35223), (44, 35304), (46, 35331), (47, 35337), (49, 35427), (54, 35523), (55, 35526), (57, 35589), (58, 35622), (59, 35640), (60, 35643), (64, 35679), (66, 35703), (68, 35724), (71, 35814), (72, 35826), (76, 35937),

Gene: Ennea_49 Start: 34236, Stop: 36794, Start Num: 6

Candidate Starts for Ennea_49:

(1, 34038), (5, 34185), (Start: 6 @34236 has 15 MA's), (8, 34365), (9, 34485), (11, 34704), (12, 34707), (16, 34836), (20, 34944), (21, 34983), (27, 35355), (28, 35439), (31, 35817), (32, 35922), (33, 35940), (34, 35973), (36, 35994), (38, 36048), (44, 36153), (47, 36186), (49, 36276), (54, 36372), (55, 36375), (57, 36438), (58, 36471), (59, 36489), (60, 36492), (64, 36528), (66, 36552), (68, 36573), (71, 36663), (72, 36675),

Gene: Flapper_47 Start: 33951, Stop: 36509, Start Num: 6

Candidate Starts for Flapper_47:

(Start: 6 @33951 has 15 MA's), (11, 34419), (12, 34422), (14, 34479), (18, 34632), (19, 34653), (21, 34698), (26, 35049), (28, 35154), (31, 35532), (32, 35637), (33, 35655), (34, 35688), (36, 35709), (38,

35763), (44, 35868), (47, 35901), (49, 35991), (52, 36045), (53, 36048), (54, 36087), (55, 36090), (57, 36153), (58, 36186), (59, 36204), (60, 36207), (64, 36243), (65, 36246), (68, 36288), (71, 36378), (72, 36390), (75, 36480),

Gene: Float294_45 Start: 33678, Stop: 36236, Start Num: 6

Candidate Starts for Float294_45:

(1, 33480), (5, 33627), (Start: 6 @33678 has 15 MA's), (8, 33807), (9, 33927), (11, 34146), (12, 34149), (15, 34221), (16, 34278), (17, 34299), (20, 34386), (21, 34425), (27, 34797), (28, 34881), (31, 35259), (32, 35364), (33, 35382), (34, 35415), (36, 35436), (38, 35490), (46, 35622), (47, 35628), (49, 35718), (54, 35814), (55, 35817), (57, 35880), (58, 35913), (59, 35931), (60, 35934), (64, 35970), (66, 35994), (68, 36015), (71, 36105), (72, 36117),

Gene: GTE5_34 Start: 26806, Stop: 29361, Start Num: 6

Candidate Starts for GTE5_34:

(3, 26713), (4, 26734), (Start: 6 @26806 has 15 MA's), (10, 27175), (11, 27274), (12, 27277), (13, 27322), (14, 27334), (19, 27508), (21, 27553), (27, 27925), (28, 28009), (31, 28387), (33, 28510), (36, 28564), (37, 28579), (39, 28621), (41, 28666), (43, 28720), (44, 28723), (48, 28771), (50, 28849), (54, 28942), (55, 28945), (56, 29005), (57, 29008), (58, 29041), (61, 29065), (62, 29086), (63, 29089), (68, 29143), (72, 29245), (75, 29335),

Gene: Kabluna_46 Start: 32323, Stop: 34881, Start Num: 6

Candidate Starts for Kabluna_46:

(Start: 6 @32323 has 15 MA's), (8, 32452), (11, 32791), (12, 32794), (14, 32851), (18, 33004), (21, 33070), (22, 33085), (28, 33526), (31, 33904), (32, 34009), (33, 34027), (34, 34060), (36, 34081), (38, 34135), (44, 34240), (46, 34267), (47, 34273), (49, 34363), (54, 34459), (55, 34462), (57, 34525), (58, 34558), (63, 34606), (66, 34639), (68, 34660), (70, 34747), (72, 34762), (76, 34873),

Gene: Lollipop1437_48 Start: 34224, Stop: 36782, Start Num: 6

Candidate Starts for Lollipop1437_48:

(Start: 6 @34224 has 15 MA's), (9, 34473), (11, 34692), (12, 34695), (16, 34824), (20, 34932), (21, 34971), (27, 35343), (28, 35427), (31, 35805), (32, 35910), (33, 35928), (34, 35961), (36, 35982), (38, 36036), (44, 36141), (47, 36174), (49, 36264), (54, 36360), (55, 36363), (57, 36426), (58, 36459), (59, 36477), (60, 36480), (64, 36516), (66, 36540), (68, 36561), (71, 36651), (72, 36663),

Gene: MerCougar_44 Start: 33507, Stop: 36065, Start Num: 6

Candidate Starts for MerCougar_44:

(Start: 6 @33507 has 15 MA's), (7, 33516), (8, 33636), (11, 33975), (12, 33978), (14, 34035), (18, 34188), (22, 34269), (23, 34359), (27, 34626), (28, 34710), (30, 34980), (31, 35088), (32, 35193), (33, 35211), (34, 35244), (35, 35253), (40, 35343), (42, 35388), (43, 35421), (44, 35424), (47, 35457), (51, 35577), (52, 35601), (53, 35604), (54, 35643), (55, 35646), (58, 35742), (67, 35838), (68, 35844), (69, 35916), (72, 35946), (73, 35973), (74, 36018), (75, 36036),

Gene: NosilaM_46 Start: 33220, Stop: 35778, Start Num: 6

Candidate Starts for NosilaM_46:

(Start: 6 @33220 has 15 MA's), (8, 33349), (11, 33688), (12, 33691), (14, 33748), (18, 33901), (21, 33967), (22, 33982), (28, 34423), (31, 34801), (32, 34906), (33, 34924), (34, 34957), (36, 34978), (38, 35032), (44, 35137), (46, 35164), (47, 35170), (49, 35260), (54, 35356), (55, 35359), (57, 35422), (58, 35455), (63, 35503), (66, 35536), (68, 35557), (70, 35644), (72, 35659), (75, 35749), (76, 35770),

Gene: Outis_44 Start: 33201, Stop: 35759, Start Num: 6

Candidate Starts for Outis_44:

(Start: 6 @33201 has 15 MA's), (7, 33210), (8, 33330), (11, 33669), (12, 33672), (14, 33729), (18, 33882), (22, 33963), (23, 34053), (27, 34320), (28, 34404), (30, 34674), (31, 34782), (32, 34887), (33,

34905), (34, 34938), (35, 34947), (40, 35037), (42, 35082), (43, 35115), (44, 35118), (47, 35151), (51, 35271), (52, 35295), (53, 35298), (54, 35337), (55, 35340), (58, 35436), (67, 35532), (68, 35538), (69, 35610), (72, 35640), (73, 35667), (74, 35712), (75, 35730),

Gene: Patio_46 Start: 33460, Stop: 36018, Start Num: 6

Candidate Starts for Patio_46:

(1, 33262), (5, 33409), (Start: 6 @33460 has 15 MA's), (8, 33589), (9, 33709), (11, 33928), (12, 33931), (15, 34003), (16, 34060), (17, 34081), (20, 34168), (21, 34207), (27, 34579), (28, 34663), (31, 35041), (32, 35146), (33, 35164), (34, 35197), (36, 35218), (38, 35272), (40, 35296), (44, 35377), (46, 35404), (47, 35410), (49, 35500), (54, 35596), (55, 35599), (57, 35662), (58, 35695), (59, 35713), (60, 35716), (64, 35752), (66, 35776), (68, 35797), (71, 35887), (72, 35899),

Gene: RedRaider_50 Start: 35482, Stop: 38040, Start Num: 6

Candidate Starts for RedRaider_50:

(Start: 6 @35482 has 15 MA's), (8, 35611), (11, 35950), (12, 35953), (16, 36082), (20, 36190), (21, 36229), (24, 36337), (25, 36493), (27, 36601), (29, 36733), (31, 37063), (32, 37168), (33, 37186), (34, 37219), (38, 37294), (42, 37363), (44, 37399), (47, 37432), (49, 37522), (52, 37576), (53, 37579), (54, 37618), (55, 37621), (58, 37717), (66, 37798), (67, 37813), (68, 37819), (69, 37891), (72, 37921), (73, 37948), (75, 38011),

Gene: Skysand_45 Start: 33680, Stop: 36238, Start Num: 6

Candidate Starts for Skysand_45:

(Start: 6 @33680 has 15 MA's), (9, 33929), (11, 34148), (12, 34151), (15, 34223), (16, 34280), (17, 34301), (20, 34388), (21, 34427), (27, 34799), (28, 34883), (31, 35261), (32, 35366), (33, 35384), (34, 35417), (36, 35438), (38, 35492), (40, 35516), (42, 35561), (44, 35597), (45, 35606), (47, 35630), (49, 35720), (55, 35819), (57, 35882), (58, 35915), (59, 35933), (60, 35936), (64, 35972), (66, 35996), (68, 36017), (71, 36107), (72, 36119),

Gene: StarStruck_44 Start: 33201, Stop: 35759, Start Num: 6

Candidate Starts for StarStruck_44:

(Start: 6 @33201 has 15 MA's), (7, 33210), (8, 33330), (11, 33669), (12, 33672), (14, 33729), (18, 33882), (22, 33963), (23, 34053), (27, 34320), (28, 34404), (30, 34674), (31, 34782), (32, 34887), (33, 34905), (34, 34938), (35, 34947), (40, 35037), (42, 35082), (43, 35115), (44, 35118), (47, 35151), (51, 35271), (52, 35295), (53, 35298), (54, 35337), (55, 35340), (58, 35436), (67, 35532), (68, 35538), (69, 35610), (72, 35640), (73, 35667), (74, 35712), (75, 35730),

Gene: SuperSulley_44 Start: 33387, Stop: 35945, Start Num: 6

Candidate Starts for SuperSulley_44:

(2, 33258), (Start: 6 @33387 has 15 MA's), (8, 33516), (11, 33855), (12, 33858), (14, 33915), (18, 34068), (21, 34134), (22, 34149), (28, 34590), (31, 34968), (32, 35073), (33, 35091), (34, 35124), (36, 35145), (38, 35199), (40, 35223), (44, 35304), (46, 35331), (47, 35337), (49, 35427), (54, 35523), (55, 35526), (57, 35589), (58, 35622), (59, 35640), (60, 35643), (64, 35679), (66, 35703), (68, 35724), (71, 35814), (72, 35826), (76, 35937),