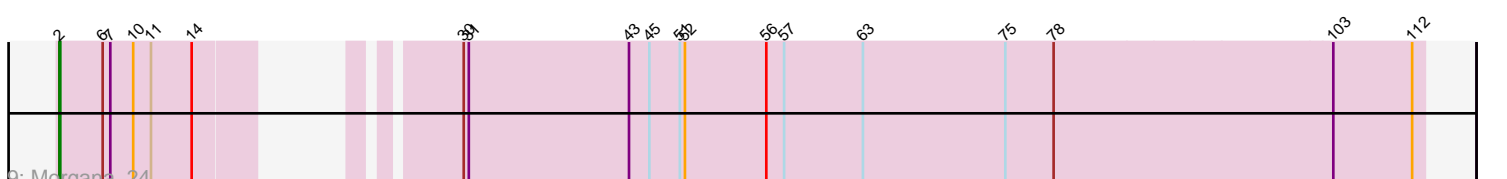
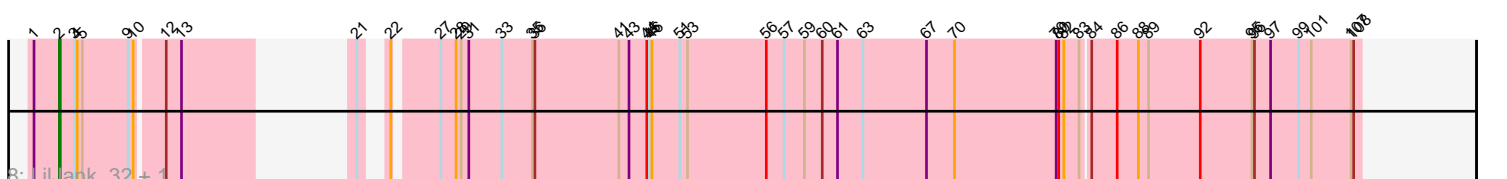
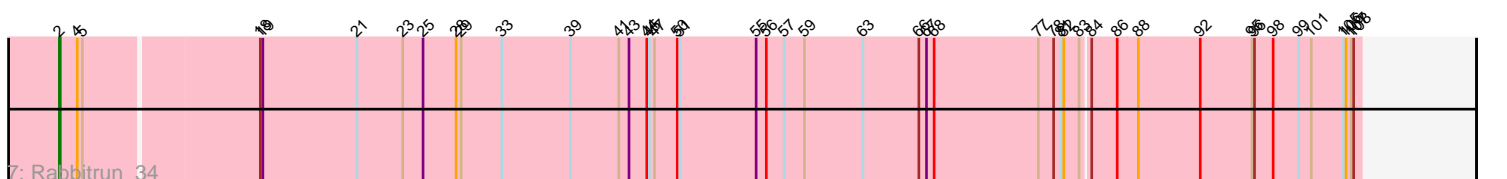
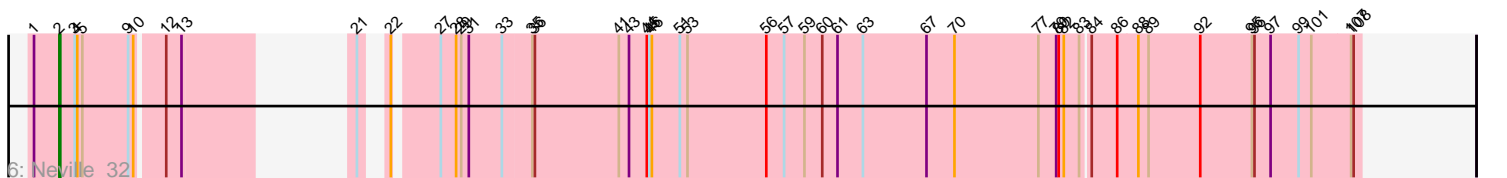
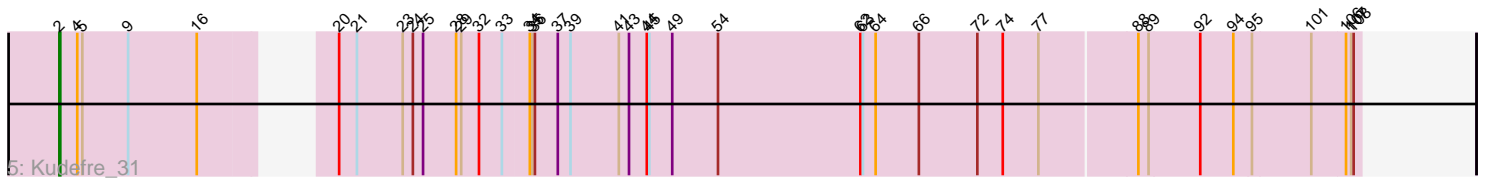
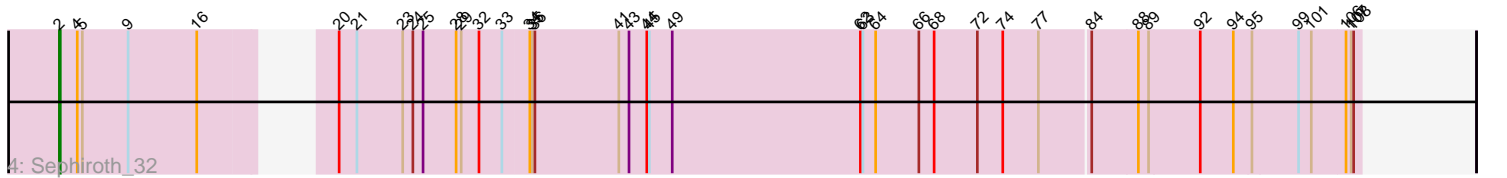
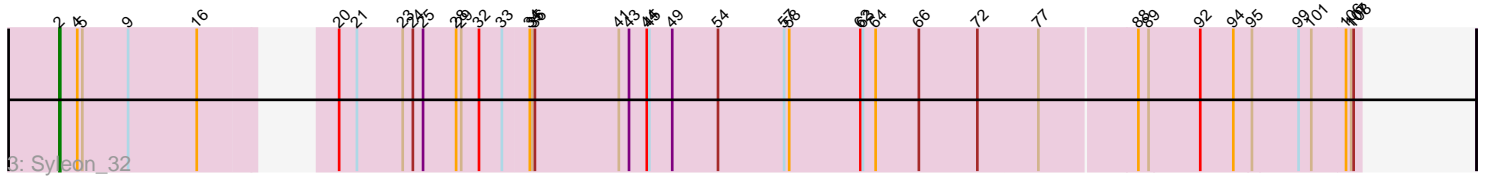
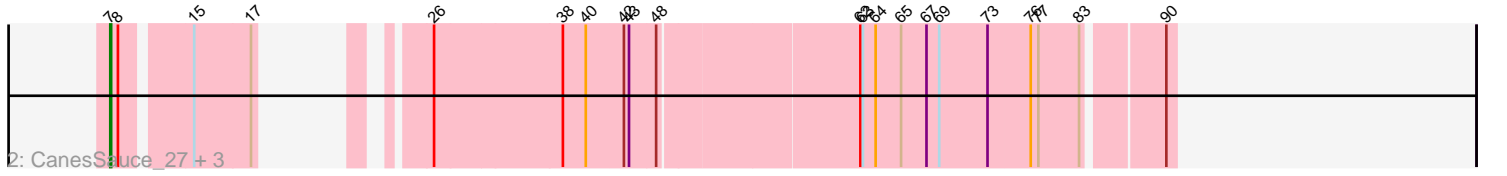
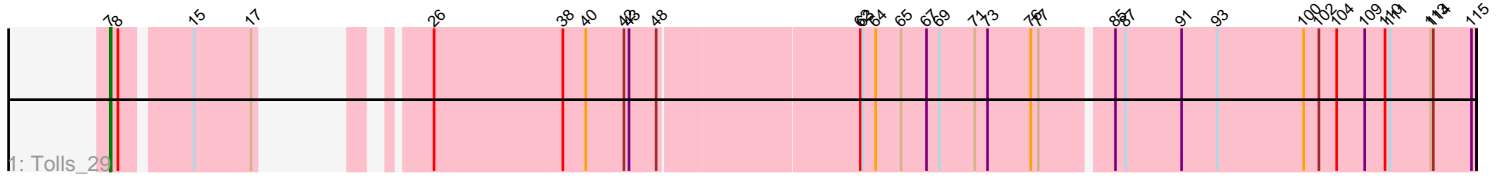


Pham 293291



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 293291 Report

This analysis was run 04/18/26 on database version 643.

Pham number 293291 has 13 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Tolls_29
- Track 2 : CanesSauce_27, CaramelLatte_27, ChocoMunchkin_27, SteamedHams_29
- Track 3 : Syleon_32
- Track 4 : Sephiroth_32
- Track 5 : Kudefre_31
- Track 6 : Neville_32
- Track 7 : Rabbitrun_34
- Track 8 : LilJank_32, Trax_32
- Track 9 : Morgana_24

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 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Kudefre_31, LilJank_32, Morgana_24, Neville_32, Rabbitrun_34, Sephiroth_32, Syleon_32, Trax_32,

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

-

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

- CanesSauce_27, CaramelLatte_27, ChocoMunchkin_27, SteamedHams_29, Tolls_29,

Summary by start number:

Start 2:

- Found in 8 of 13 (61.5%) of genes in pham
- Manual Annotations of this start: 7 of 9
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Kudrefre_31 (DU1), LilJank_32 (DU2), Morgana_24 (DZ), Neville_32 (DU2), Rabbitrun_34 (DU2), Sephiroth_32 (DU1), Syleon_32 (DU1), Trax_32 (DU2),

Start 7:

- Found in 6 of 13 (46.2%) of genes in pham
- Manual Annotations of this start: 2 of 9
- Called 83.3% of time when present
- Phage (with cluster) where this start called: CanesSauce_27 (CT), CaramelLatte_27 (CT), ChocoMunchkin_27 (CT), SteamedHams_29 (CT), Tolls_29 (CT),

Summary by clusters:

There are 4 clusters represented in this pham: DU1, DU2, DZ, CT,

Info for manual annotations of cluster CT:

- Start number 7 was manually annotated 2 times for cluster CT.

Info for manual annotations of cluster DU1:

- Start number 2 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 2 was manually annotated 3 times for cluster DU2.

Info for manual annotations of cluster DZ:

- Start number 2 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: CanesSauce_27 Start: 21648, Stop: 22691, Start Num: 7

Candidate Starts for CanesSauce_27:

(Start: 7 @21648 has 2 MA's), (8, 21657), (15, 21729), (17, 21795), (26, 21867), (38, 22014), (40, 22041), (42, 22080), (43, 22086), (48, 22116), (62, 22341), (63, 22344), (64, 22359), (65, 22389), (67, 22419), (69, 22434), (73, 22491), (76, 22539), (77, 22548), (83, 22596), (90, 22680),

Gene: CaramelLatte_27 Start: 21648, Stop: 22691, Start Num: 7

Candidate Starts for CaramelLatte_27:

(Start: 7 @21648 has 2 MA's), (8, 21657), (15, 21729), (17, 21795), (26, 21867), (38, 22014), (40, 22041), (42, 22080), (43, 22086), (48, 22116), (62, 22341), (63, 22344), (64, 22359), (65, 22389), (67, 22419), (69, 22434), (73, 22491), (76, 22539), (77, 22548), (83, 22596), (90, 22680),

Gene: ChocoMunchkin_27 Start: 21648, Stop: 22691, Start Num: 7

Candidate Starts for ChocoMunchkin_27:

(Start: 7 @21648 has 2 MA's), (8, 21657), (15, 21729), (17, 21795), (26, 21867), (38, 22014), (40, 22041), (42, 22080), (43, 22086), (48, 22116), (62, 22341), (63, 22344), (64, 22359), (65, 22389), (67, 22419), (69, 22434), (73, 22491), (76, 22539), (77, 22548), (83, 22596), (90, 22680),

Gene: Kudrefre_31 Start: 26003, Stop: 27445, Start Num: 2

Candidate Starts for Kudrefre_31:

(Start: 2 @26003 has 7 MA's), (4, 26024), (5, 26030), (9, 26084), (16, 26165), (20, 26258), (21, 26279), (23, 26333), (24, 26345), (25, 26357), (28, 26396), (29, 26402), (32, 26423), (33, 26450), (34, 26480),

(35, 26483), (36, 26486), (37, 26513), (39, 26528), (41, 26585), (43, 26597), (44, 26618), (45, 26621), (49, 26648), (54, 26702), (62, 26870), (63, 26873), (64, 26888), (66, 26939), (72, 27008), (74, 27038), (77, 27077), (88, 27188), (89, 27200), (92, 27260), (94, 27299), (95, 27320), (101, 27389), (106, 27428), (107, 27434), (108, 27437),

Gene: LilJank_32 Start: 27770, Stop: 29125, Start Num: 2

Candidate Starts for LilJank_32:

(1, 27740), (Start: 2 @27770 has 7 MA's), (3, 27788), (4, 27791), (5, 27797), (9, 27851), (10, 27857), (12, 27887), (13, 27905), (21, 27998), (22, 28013), (27, 28058), (28, 28076), (29, 28082), (31, 28091), (33, 28130), (35, 28163), (36, 28166), (41, 28265), (43, 28277), (44, 28298), (45, 28301), (46, 28304), (51, 28337), (53, 28346), (56, 28439), (57, 28460), (59, 28484), (60, 28505), (61, 28523), (63, 28553), (67, 28628), (70, 28661), (79, 28778), (80, 28781), (82, 28787), (83, 28805), (84, 28814), (86, 28844), (88, 28868), (89, 28880), (92, 28940), (95, 29000), (96, 29003), (97, 29021), (99, 29054), (101, 29069), (107, 29114), (108, 29117),

Gene: Morgana_24 Start: 21426, Stop: 22886, Start Num: 2

Candidate Starts for Morgana_24:

(Start: 2 @21426 has 7 MA's), (6, 21477), (Start: 7 @21486 has 2 MA's), (10, 21513), (11, 21531), (14, 21579), (30, 21759), (31, 21765), (43, 21954), (45, 21978), (51, 22014), (52, 22020), (56, 22116), (57, 22137), (63, 22230), (75, 22398), (78, 22455), (103, 22779), (112, 22872),

Gene: Neville_32 Start: 27410, Stop: 28765, Start Num: 2

Candidate Starts for Neville_32:

(1, 27380), (Start: 2 @27410 has 7 MA's), (3, 27428), (4, 27431), (5, 27437), (9, 27491), (10, 27497), (12, 27527), (13, 27545), (21, 27638), (22, 27653), (27, 27698), (28, 27716), (29, 27722), (31, 27731), (33, 27770), (35, 27803), (36, 27806), (41, 27905), (43, 27917), (44, 27938), (45, 27941), (46, 27944), (51, 27977), (53, 27986), (56, 28079), (57, 28100), (59, 28124), (60, 28145), (61, 28163), (63, 28193), (67, 28268), (70, 28301), (77, 28397), (79, 28418), (80, 28421), (82, 28427), (83, 28445), (84, 28454), (86, 28484), (88, 28508), (89, 28520), (92, 28580), (95, 28640), (96, 28643), (97, 28661), (99, 28694), (101, 28709), (107, 28754), (108, 28757),

Gene: Rabbitrun_34 Start: 27724, Stop: 29229, Start Num: 2

Candidate Starts for Rabbitrun_34:

(Start: 2 @27724 has 7 MA's), (4, 27745), (5, 27751), (18, 27949), (19, 27952), (21, 28063), (23, 28117), (25, 28141), (28, 28180), (29, 28186), (33, 28234), (39, 28312), (41, 28369), (43, 28381), (44, 28402), (45, 28405), (47, 28411), (50, 28438), (51, 28441), (55, 28531), (56, 28543), (57, 28564), (59, 28588), (63, 28657), (66, 28723), (67, 28732), (68, 28741), (77, 28861), (78, 28879), (81, 28888), (82, 28891), (83, 28909), (84, 28918), (86, 28948), (88, 28972), (92, 29044), (95, 29104), (96, 29107), (98, 29128), (99, 29158), (101, 29173), (105, 29209), (106, 29212), (107, 29218), (108, 29221),

Gene: Sephiroth_32 Start: 26174, Stop: 27616, Start Num: 2

Candidate Starts for Sephiroth_32:

(Start: 2 @26174 has 7 MA's), (4, 26195), (5, 26201), (9, 26255), (16, 26336), (20, 26429), (21, 26450), (23, 26504), (24, 26516), (25, 26528), (28, 26567), (29, 26573), (32, 26594), (33, 26621), (34, 26651), (35, 26654), (36, 26657), (41, 26756), (43, 26768), (44, 26789), (45, 26792), (49, 26819), (62, 27041), (63, 27044), (64, 27059), (66, 27110), (68, 27128), (72, 27179), (74, 27209), (77, 27248), (84, 27305), (88, 27359), (89, 27371), (92, 27431), (94, 27470), (95, 27491), (99, 27545), (101, 27560), (106, 27599), (107, 27605), (108, 27608),

Gene: SteamedHams_29 Start: 21624, Stop: 22667, Start Num: 7

Candidate Starts for SteamedHams_29:

(Start: 7 @21624 has 2 MA's), (8, 21633), (15, 21705), (17, 21771), (26, 21843), (38, 21990), (40, 22017), (42, 22056), (43, 22062), (48, 22092), (62, 22317), (63, 22320), (64, 22335), (65, 22365), (67,

22395), (69, 22410), (73, 22467), (76, 22515), (77, 22524), (83, 22572), (90, 22656),

Gene: Syleon_32 Start: 26096, Stop: 27538, Start Num: 2

Candidate Starts for Syleon_32:

(Start: 2 @26096 has 7 MA's), (4, 26117), (5, 26123), (9, 26177), (16, 26258), (20, 26351), (21, 26372), (23, 26426), (24, 26438), (25, 26450), (28, 26489), (29, 26495), (32, 26516), (33, 26543), (34, 26573), (35, 26576), (36, 26579), (41, 26678), (43, 26690), (44, 26711), (45, 26714), (49, 26741), (54, 26795), (57, 26873), (58, 26879), (62, 26963), (63, 26966), (64, 26981), (66, 27032), (72, 27101), (77, 27170), (88, 27281), (89, 27293), (92, 27353), (94, 27392), (95, 27413), (99, 27467), (101, 27482), (106, 27521), (107, 27527), (108, 27530),

Gene: Tolls_29 Start: 21618, Stop: 23021, Start Num: 7

Candidate Starts for Tolls_29:

(Start: 7 @21618 has 2 MA's), (8, 21627), (15, 21699), (17, 21765), (26, 21837), (38, 21984), (40, 22011), (42, 22050), (43, 22056), (48, 22086), (62, 22311), (63, 22314), (64, 22329), (65, 22359), (67, 22389), (69, 22404), (71, 22446), (73, 22461), (76, 22509), (77, 22518), (85, 22596), (87, 22608), (91, 22674), (93, 22716), (100, 22818), (102, 22836), (104, 22857), (109, 22890), (110, 22914), (111, 22920), (113, 22968), (114, 22971), (115, 23016),

Gene: Trax_32 Start: 27716, Stop: 29071, Start Num: 2

Candidate Starts for Trax_32:

(1, 27686), (Start: 2 @27716 has 7 MA's), (3, 27734), (4, 27737), (5, 27743), (9, 27797), (10, 27803), (12, 27833), (13, 27851), (21, 27944), (22, 27959), (27, 28004), (28, 28022), (29, 28028), (31, 28037), (33, 28076), (35, 28109), (36, 28112), (41, 28211), (43, 28223), (44, 28244), (45, 28247), (46, 28250), (51, 28283), (53, 28292), (56, 28385), (57, 28406), (59, 28430), (60, 28451), (61, 28469), (63, 28499), (67, 28574), (70, 28607), (79, 28724), (80, 28727), (82, 28733), (83, 28751), (84, 28760), (86, 28790), (88, 28814), (89, 28826), (92, 28886), (95, 28946), (96, 28949), (97, 28967), (99, 29000), (101, 29015), (107, 29060), (108, 29063),