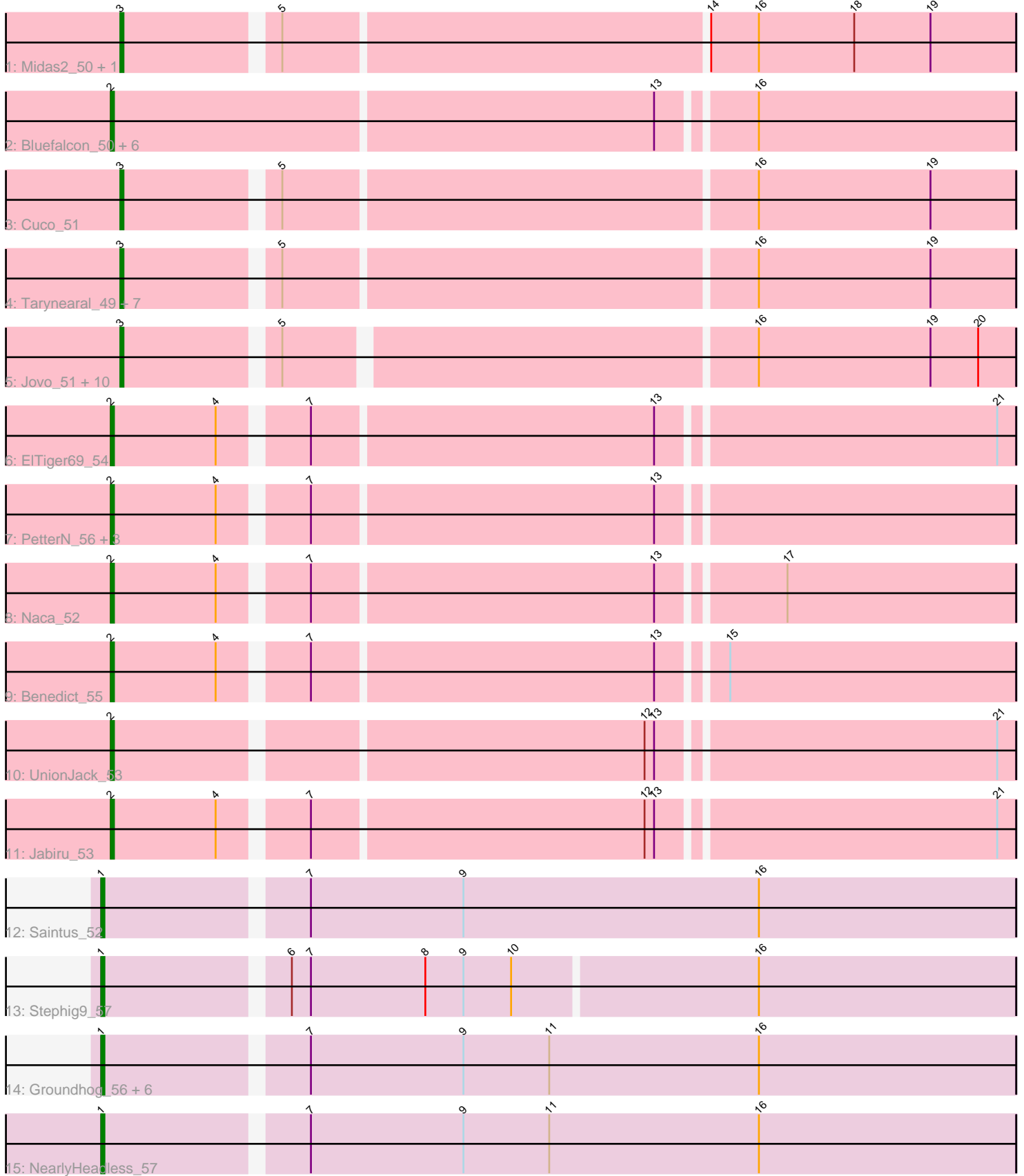


Pham 1925



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 1925 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1925 has 48 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Midas2_50, Coog_50
- Track 2 : Bluefalcon_50, Ghoulboy_54, Dublin_51, Theia_50, SydNat_54, Zolita_53, MarysWell_51
- Track 3 : Cuco_51
- Track 4 : Tarynearal_49, George_49, HuhtaEnerson15_51, Swirley_53, LittleCherry_51, Micasa_51, Milcery_51, Bonamassa_51
- Track 5 : Jovo_51, AgentM_50, PickleBack_51, Aragog_50, Conspiracy_51, Phlorence_49, Tiger_50, ForGetIt_51, Discoknowium_49, Lev2_51, Archetta_50
- Track 6 : ElTiger69_54
- Track 7 : PetterN_56, Chadwick_55, Scorpio_56, Airmid_52
- Track 8 : Naca_52
- Track 9 : Benedict_55
- Track 10 : UnionJack_53
- Track 11 : Jabiru_53
- Track 12 : Saintus_52
- Track 13 : Stephig9_57
- Track 14 : Groundhog_56, Astro_57, Roary_58, Expelliarmus_55, Dixon_56, Danforth_57, Smeadley_57
- Track 15 : NearlyHeadless_57

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

The start number called the most often in the published annotations is 3, it was called in 21 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_50, Aragog_50, Archetta_50, Bonamassa_51, Conspiracy_51, Coog_50, Cuco_51, Discoknowium_49, ForGetIt_51, George_49, HuhtaEnerson15_51, Jovo_51, Lev2_51, LittleCherry_51, Micasa_51, Midas2_50, Milcery_51, Phlorence_49, PickleBack_51, Swirley_53, Tarynearal_49, Tiger_50,

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

-

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

• Airmid_52, Astro_57, Benedict_55, Bluefalcon_50, Chadwick_55, Danforth_57, Dixon_56, Dublin_51, ElTiger69_54, Expelliarmus_55, Ghoulboy_54, Groundhog_56, Jabiru_53, MarysWell_51, Naca_52, NearlyHeadless_57, PetterN_56, Roary_58, Saintus_52, Scorpia_56, Smeadley_57, Stephig9_57, SydNat_54, Theia_50, UnionJack_53, Zolita_53,

Summary by start number:

Start 1:

- Found in 10 of 48 (20.8%) of genes in pham
- Manual Annotations of this start: 10 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_57 (A8), Danforth_57 (A8), Dixon_56 (A8), Expelliarmus_55 (A8), Groundhog_56 (A8), NearlyHeadless_57 (A8), Roary_58 (A8), Saintus_52 (A8), Smeadley_57 (A8), Stephig9_57 (A8),

Start 2:

- Found in 16 of 48 (33.3%) of genes in pham
- Manual Annotations of this start: 16 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Airmid_52 (A5), Benedict_55 (A5), Bluefalcon_50 (A5), Chadwick_55 (A5), Dublin_51 (A5), ElTiger69_54 (A5), Ghoulboy_54 (A5), Jabiru_53 (A5), MarysWell_51 (A5), Naca_52 (A5), PetterN_56 (A5), Scorpia_56 (A5), SydNat_54 (A5), Theia_50 (A5), UnionJack_53 (A5), Zolita_53 (A5),

Start 3:

- Found in 22 of 48 (45.8%) of genes in pham
- Manual Annotations of this start: 21 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_50 (A5), Aragog_50 (A5), Archetta_50 (A5), Bonamassa_51 (A5), Conspiracy_51 (A5), Coog_50 (A5), Cuco_51 (A5), Discoknowium_49 (A5), ForGetIt_51 (A5), George_49 (A5), HuhtaEnerson15_51 (A5), Jovo_51 (A5), Lev2_51 (A5), LittleCherry_51 (A5), Micasa_51 (A5), Midas2_50 (A5), Milcery_51 (A5), Phlorence_49 (A5), PickleBack_51 (A5), Swirley_53 (A5), Tarynearal_49 (A5), Tiger_50 (A5),

Summary by clusters:

There are 2 clusters represented in this pham: A8, A5,

Info for manual annotations of cluster A5:

- Start number 2 was manually annotated 16 times for cluster A5.
- Start number 3 was manually annotated 21 times for cluster A5.

Info for manual annotations of cluster A8:

- Start number 1 was manually annotated 10 times for cluster A8.

Gene Information:

Gene: AgentM_50 Start: 37187, Stop: 36921, Start Num: 3
Candidate Starts for AgentM_50:
(Start: 3 @37187 has 21 MA's), (5, 37142), (16, 37001), (19, 36947), (20, 36932),

Gene: Airmid_52 Start: 37331, Stop: 37062, Start Num: 2
Candidate Starts for Airmid_52:
(Start: 2 @37331 has 16 MA's), (4, 37298), (7, 37274), (13, 37169),

Gene: Aragog_50 Start: 37207, Stop: 36941, Start Num: 3
Candidate Starts for Aragog_50:
(Start: 3 @37207 has 21 MA's), (5, 37162), (16, 37021), (19, 36967), (20, 36952),

Gene: Archetta_50 Start: 37617, Stop: 37351, Start Num: 3
Candidate Starts for Archetta_50:
(Start: 3 @37617 has 21 MA's), (5, 37572), (16, 37431), (19, 37377), (20, 37362),

Gene: Astro_57 Start: 37187, Stop: 36906, Start Num: 1
Candidate Starts for Astro_57:
(Start: 1 @37187 has 10 MA's), (7, 37127), (9, 37079), (11, 37052), (16, 36986),

Gene: Benedict_55 Start: 37579, Stop: 37310, Start Num: 2
Candidate Starts for Benedict_55:
(Start: 2 @37579 has 16 MA's), (4, 37546), (7, 37522), (13, 37417), (15, 37399),

Gene: Bluefalcon_50 Start: 37762, Stop: 37487, Start Num: 2
Candidate Starts for Bluefalcon_50:
(Start: 2 @37762 has 16 MA's), (13, 37594), (16, 37567),

Gene: Bonamassa_51 Start: 37633, Stop: 37364, Start Num: 3
Candidate Starts for Bonamassa_51:
(Start: 3 @37633 has 21 MA's), (5, 37588), (16, 37444), (19, 37390),

Gene: Chadwick_55 Start: 37420, Stop: 37151, Start Num: 2
Candidate Starts for Chadwick_55:
(Start: 2 @37420 has 16 MA's), (4, 37387), (7, 37363), (13, 37258),

Gene: Conspiracy_51 Start: 37429, Stop: 37163, Start Num: 3
Candidate Starts for Conspiracy_51:
(Start: 3 @37429 has 21 MA's), (5, 37384), (16, 37243), (19, 37189), (20, 37174),

Gene: Coog_50 Start: 37623, Stop: 37354, Start Num: 3
Candidate Starts for Coog_50:
(Start: 3 @37623 has 21 MA's), (5, 37578), (14, 37449), (16, 37434), (18, 37404), (19, 37380),

Gene: Cuco_51 Start: 37480, Stop: 37211, Start Num: 3
Candidate Starts for Cuco_51:
(Start: 3 @37480 has 21 MA's), (5, 37435), (16, 37291), (19, 37237),

Gene: Danforth_57 Start: 37250, Stop: 36969, Start Num: 1
Candidate Starts for Danforth_57:
(Start: 1 @37250 has 10 MA's), (7, 37190), (9, 37142), (11, 37115), (16, 37049),

Gene: Discoknowium_49 Start: 37096, Stop: 36830, Start Num: 3

Candidate Starts for Discoknowium_49:

(Start: 3 @37096 has 21 MA's), (5, 37051), (16, 36910), (19, 36856), (20, 36841),

Gene: Dixon_56 Start: 36770, Stop: 36489, Start Num: 1

Candidate Starts for Dixon_56:

(Start: 1 @36770 has 10 MA's), (7, 36710), (9, 36662), (11, 36635), (16, 36569),

Gene: Dublin_51 Start: 37598, Stop: 37323, Start Num: 2

Candidate Starts for Dublin_51:

(Start: 2 @37598 has 16 MA's), (13, 37430), (16, 37403),

Gene: ElTiger69_54 Start: 37555, Stop: 37286, Start Num: 2

Candidate Starts for ElTiger69_54:

(Start: 2 @37555 has 16 MA's), (4, 37522), (7, 37498), (13, 37393), (21, 37291),

Gene: Expelliarmus_55 Start: 36974, Stop: 36693, Start Num: 1

Candidate Starts for Expelliarmus_55:

(Start: 1 @36974 has 10 MA's), (7, 36914), (9, 36866), (11, 36839), (16, 36773),

Gene: ForGetIt_51 Start: 37454, Stop: 37188, Start Num: 3

Candidate Starts for ForGetIt_51:

(Start: 3 @37454 has 21 MA's), (5, 37409), (16, 37268), (19, 37214), (20, 37199),

Gene: George_49 Start: 37530, Stop: 37261, Start Num: 3

Candidate Starts for George_49:

(Start: 3 @37530 has 21 MA's), (5, 37485), (16, 37341), (19, 37287),

Gene: Ghoulboy_54 Start: 38333, Stop: 38058, Start Num: 2

Candidate Starts for Ghoulboy_54:

(Start: 2 @38333 has 16 MA's), (13, 38165), (16, 38138),

Gene: Groundhog_56 Start: 37165, Stop: 36884, Start Num: 1

Candidate Starts for Groundhog_56:

(Start: 1 @37165 has 10 MA's), (7, 37105), (9, 37057), (11, 37030), (16, 36964),

Gene: HuhtaEnerson15_51 Start: 37527, Stop: 37258, Start Num: 3

Candidate Starts for HuhtaEnerson15_51:

(Start: 3 @37527 has 21 MA's), (5, 37482), (16, 37338), (19, 37284),

Gene: Jabiru_53 Start: 37434, Stop: 37165, Start Num: 2

Candidate Starts for Jabiru_53:

(Start: 2 @37434 has 16 MA's), (4, 37401), (7, 37377), (12, 37275), (13, 37272), (21, 37170),

Gene: Jovo_51 Start: 37710, Stop: 37444, Start Num: 3

Candidate Starts for Jovo_51:

(Start: 3 @37710 has 21 MA's), (5, 37665), (16, 37524), (19, 37470), (20, 37455),

Gene: Lev2_51 Start: 37342, Stop: 37076, Start Num: 3

Candidate Starts for Lev2_51:

(Start: 3 @37342 has 21 MA's), (5, 37297), (16, 37156), (19, 37102), (20, 37087),

Gene: LittleCherry_51 Start: 37547, Stop: 37278, Start Num: 3

Candidate Starts for LittleCherry_51:

(Start: 3 @37547 has 21 MA's), (5, 37502), (16, 37358), (19, 37304),

Gene: MarysWell_51 Start: 37841, Stop: 37566, Start Num: 2

Candidate Starts for MarysWell_51:

(Start: 2 @37841 has 16 MA's), (13, 37673), (16, 37646),

Gene: Micasa_51 Start: 37715, Stop: 37446, Start Num: 3

Candidate Starts for Micasa_51:

(Start: 3 @37715 has 21 MA's), (5, 37670), (16, 37526), (19, 37472),

Gene: Midas2_50 Start: 37623, Stop: 37354, Start Num: 3

Candidate Starts for Midas2_50:

(Start: 3 @37623 has 21 MA's), (5, 37578), (14, 37449), (16, 37434), (18, 37404), (19, 37380),

Gene: Milcery_51 Start: 37498, Stop: 37229, Start Num: 3

Candidate Starts for Milcery_51:

(Start: 3 @37498 has 21 MA's), (5, 37453), (16, 37309), (19, 37255),

Gene: Naca_52 Start: 37973, Stop: 37704, Start Num: 2

Candidate Starts for Naca_52:

(Start: 2 @37973 has 16 MA's), (4, 37940), (7, 37916), (13, 37811), (17, 37775),

Gene: NearlyHeadless_57 Start: 37016, Stop: 36735, Start Num: 1

Candidate Starts for NearlyHeadless_57:

(Start: 1 @37016 has 10 MA's), (7, 36956), (9, 36908), (11, 36881), (16, 36815),

Gene: PetterN_56 Start: 37588, Stop: 37319, Start Num: 2

Candidate Starts for PetterN_56:

(Start: 2 @37588 has 16 MA's), (4, 37555), (7, 37531), (13, 37426),

Gene: Phlorence_49 Start: 37087, Stop: 36821, Start Num: 3

Candidate Starts for Phlorence_49:

(Start: 3 @37087 has 21 MA's), (5, 37042), (16, 36901), (19, 36847), (20, 36832),

Gene: PickleBack_51 Start: 37334, Stop: 37068, Start Num: 3

Candidate Starts for PickleBack_51:

(Start: 3 @37334 has 21 MA's), (5, 37289), (16, 37148), (19, 37094), (20, 37079),

Gene: Roary_58 Start: 37235, Stop: 36954, Start Num: 1

Candidate Starts for Roary_58:

(Start: 1 @37235 has 10 MA's), (7, 37175), (9, 37127), (11, 37100), (16, 37034),

Gene: Saintus_52 Start: 33903, Stop: 33622, Start Num: 1

Candidate Starts for Saintus_52:

(Start: 1 @33903 has 10 MA's), (7, 33843), (9, 33795), (16, 33702),

Gene: Scorpia_56 Start: 37647, Stop: 37378, Start Num: 2

Candidate Starts for Scorpia_56:

(Start: 2 @37647 has 16 MA's), (4, 37614), (7, 37590), (13, 37485),

Gene: Smeadley_57 Start: 37096, Stop: 36815, Start Num: 1

Candidate Starts for Smeadley_57:

(Start: 1 @37096 has 10 MA's), (7, 37036), (9, 36988), (11, 36961), (16, 36895),

Gene: Stephig9_57 Start: 37204, Stop: 36926, Start Num: 1

Candidate Starts for Stephig9_57:

(Start: 1 @37204 has 10 MA's), (6, 37150), (7, 37144), (8, 37108), (9, 37096), (10, 37081), (16, 37006),

Gene: Swirley_53 Start: 37703, Stop: 37434, Start Num: 3

Candidate Starts for Swirley_53:

(Start: 3 @37703 has 21 MA's), (5, 37658), (16, 37514), (19, 37460),

Gene: SydNat_54 Start: 38342, Stop: 38067, Start Num: 2

Candidate Starts for SydNat_54:

(Start: 2 @38342 has 16 MA's), (13, 38174), (16, 38147),

Gene: Tarynearal_49 Start: 37145, Stop: 36876, Start Num: 3

Candidate Starts for Tarynearal_49:

(Start: 3 @37145 has 21 MA's), (5, 37100), (16, 36956), (19, 36902),

Gene: Theia_50 Start: 37819, Stop: 37544, Start Num: 2

Candidate Starts for Theia_50:

(Start: 2 @37819 has 16 MA's), (13, 37651), (16, 37624),

Gene: Tiger_50 Start: 37008, Stop: 36742, Start Num: 3

Candidate Starts for Tiger_50:

(Start: 3 @37008 has 21 MA's), (5, 36963), (16, 36822), (19, 36768), (20, 36753),

Gene: UnionJack_53 Start: 37152, Stop: 36883, Start Num: 2

Candidate Starts for UnionJack_53:

(Start: 2 @37152 has 16 MA's), (12, 36993), (13, 36990), (21, 36888),

Gene: Zolita_53 Start: 38346, Stop: 38071, Start Num: 2

Candidate Starts for Zolita_53:

(Start: 2 @38346 has 16 MA's), (13, 38178), (16, 38151),