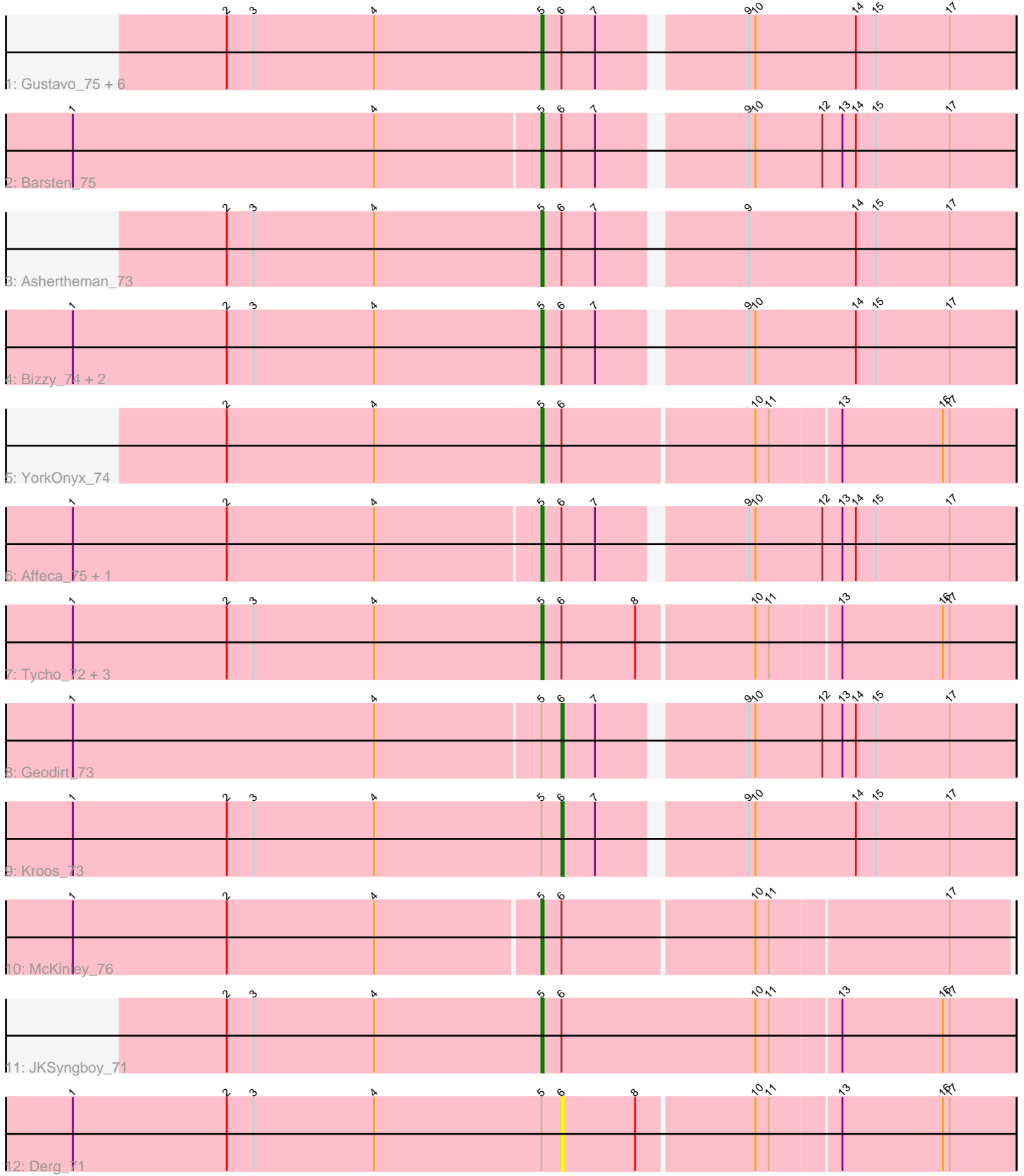


Pham 4132



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 4132 Report

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

Pham number 4132 has 24 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Gustavo_75, Saronaya_75, SchottB_71, LilHam_67, Gaea_74, Tangerine_74, Kwobi_74
- Track 2 : Barsten_75
- Track 3 : Ashertheman_73
- Track 4 : Bizzy_74, Flatwoods_73, Baumdotcom_71
- Track 5 : YorkOnyx_74
- Track 6 : Affeca_75, ChadMasterC_74
- Track 7 : Tycho_72, Baddon_71, StorminNorm_74, Ribeye_73
- Track 8 : Geodirt_73
- Track 9 : Kroos_73
- Track 10 : McKinley_76
- Track 11 : JKSyngboy_71
- Track 12 : Derg_71

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

The start number called the most often in the published annotations is 5, it was called in 15 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Affeca_75, Ashertheman_73, Baddon_71, Barsten_75, Baumdotcom_71, Bizzy_74, ChadMasterC_74, Flatwoods_73, Gaea_74, Gustavo_75, JKSyngboy_71, Kwobi_74, LilHam_67, McKinley_76, Ribeye_73, Saronaya_75, SchottB_71, StorminNorm_74, Tangerine_74, Tycho_72, YorkOnyx_74,

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

- Derg_71, Geodirt_73, Kroos_73,

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

-

Summary by start number:

Start 5:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 15 of 17
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Affeca_75 (DE1), Ashertheman_73 (DE1), Baddon_71 (DE1), Barsten_75 (DE1), Baumdotcom_71 (DE1), Bizzy_74 (DE1), ChadMasterC_74 (DE1), Flatwoods_73 (DE1), Gaea_74 (DE1), Gustavo_75 (DE1), JKSyngboy_71 (DE1), Kwobi_74 (DE1), LilHam_67 (DE1), McKinley_76 (DE1), Ribeye_73 (DE1), Saronaya_75 (DE1), SchottB_71 (DE1), StorminNorm_74 (DE1), Tangerine_74 (DE1), Tycho_72 (DE1), YorkOnyx_74 (DE1),

Start 6:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 17
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Derg_71 (DE1), Geodirt_73 (DE1), Kroos_73 (DE1),

Summary by clusters:

There is one cluster represented in this pham: DE1

Info for manual annotations of cluster DE1:

- Start number 5 was manually annotated 15 times for cluster DE1.
- Start number 6 was manually annotated 2 times for cluster DE1.

Gene Information:

Gene: Affeca_75 Start: 55475, Stop: 55678, Start Num: 5

Candidate Starts for Affeca_75:

(1, 55268), (2, 55337), (4, 55403), (Start: 5 @55475 has 15 MA's), (Start: 6 @55484 has 2 MA's), (7, 55499), (9, 55559), (10, 55562), (12, 55592), (13, 55601), (14, 55607), (15, 55616), (17, 55649),

Gene: Ashertheman_73 Start: 53619, Stop: 53822, Start Num: 5

Candidate Starts for Ashertheman_73:

(2, 53478), (3, 53490), (4, 53544), (Start: 5 @53619 has 15 MA's), (Start: 6 @53628 has 2 MA's), (7, 53643), (9, 53703), (14, 53751), (15, 53760), (17, 53793),

Gene: Baddon_71 Start: 54271, Stop: 54477, Start Num: 5

Candidate Starts for Baddon_71:

(1, 54061), (2, 54130), (3, 54142), (4, 54196), (Start: 5 @54271 has 15 MA's), (Start: 6 @54280 has 2 MA's), (8, 54313), (10, 54364), (11, 54370), (13, 54400), (16, 54445), (17, 54448),

Gene: Barsten_75 Start: 55235, Stop: 55438, Start Num: 5

Candidate Starts for Barsten_75:

(1, 55028), (4, 55163), (Start: 5 @55235 has 15 MA's), (Start: 6 @55244 has 2 MA's), (7, 55259), (9, 55319), (10, 55322), (12, 55352), (13, 55361), (14, 55367), (15, 55376), (17, 55409),

Gene: Baumdotcom_71 Start: 53590, Stop: 53793, Start Num: 5

Candidate Starts for Baumdotcom_71:

(1, 53380), (2, 53449), (3, 53461), (4, 53515), (Start: 5 @53590 has 15 MA's), (Start: 6 @53599 has 2 MA's), (7, 53614), (9, 53674), (10, 53677), (14, 53722), (15, 53731), (17, 53764),

Gene: Bizzy_74 Start: 53503, Stop: 53706, Start Num: 5

Candidate Starts for Bizzy_74:

(1, 53293), (2, 53362), (3, 53374), (4, 53428), (Start: 5 @53503 has 15 MA's), (Start: 6 @53512 has 2 MA's), (7, 53527), (9, 53587), (10, 53590), (14, 53635), (15, 53644), (17, 53677),

Gene: ChadMasterC_74 Start: 56463, Stop: 56666, Start Num: 5

Candidate Starts for ChadMasterC_74:

(1, 56256), (2, 56325), (4, 56391), (Start: 5 @56463 has 15 MA's), (Start: 6 @56472 has 2 MA's), (7, 56487), (9, 56547), (10, 56550), (12, 56580), (13, 56589), (14, 56595), (15, 56604), (17, 56637),

Gene: Derg_71 Start: 52312, Stop: 52509, Start Num: 6

Candidate Starts for Derg_71:

(1, 52093), (2, 52162), (3, 52174), (4, 52228), (Start: 5 @52303 has 15 MA's), (Start: 6 @52312 has 2 MA's), (8, 52345), (10, 52396), (11, 52402), (13, 52432), (16, 52477), (17, 52480),

Gene: Flatwoods_73 Start: 52812, Stop: 53015, Start Num: 5

Candidate Starts for Flatwoods_73:

(1, 52602), (2, 52671), (3, 52683), (4, 52737), (Start: 5 @52812 has 15 MA's), (Start: 6 @52821 has 2 MA's), (7, 52836), (9, 52896), (10, 52899), (14, 52944), (15, 52953), (17, 52986),

Gene: Gaea_74 Start: 53399, Stop: 53602, Start Num: 5

Candidate Starts for Gaea_74:

(2, 53258), (3, 53270), (4, 53324), (Start: 5 @53399 has 15 MA's), (Start: 6 @53408 has 2 MA's), (7, 53423), (9, 53483), (10, 53486), (14, 53531), (15, 53540), (17, 53573),

Gene: Geodirt_73 Start: 55721, Stop: 55915, Start Num: 6

Candidate Starts for Geodirt_73:

(1, 55505), (4, 55640), (Start: 5 @55712 has 15 MA's), (Start: 6 @55721 has 2 MA's), (7, 55736), (9, 55796), (10, 55799), (12, 55829), (13, 55838), (14, 55844), (15, 55853), (17, 55886),

Gene: Gustavo_75 Start: 54384, Stop: 54587, Start Num: 5

Candidate Starts for Gustavo_75:

(2, 54243), (3, 54255), (4, 54309), (Start: 5 @54384 has 15 MA's), (Start: 6 @54393 has 2 MA's), (7, 54408), (9, 54468), (10, 54471), (14, 54516), (15, 54525), (17, 54558),

Gene: JKSyngboy_71 Start: 54292, Stop: 54501, Start Num: 5

Candidate Starts for JKSyngboy_71:

(2, 54151), (3, 54163), (4, 54217), (Start: 5 @54292 has 15 MA's), (Start: 6 @54301 has 2 MA's), (10, 54388), (11, 54394), (13, 54424), (16, 54469), (17, 54472),

Gene: Kroos_73 Start: 53947, Stop: 54141, Start Num: 6

Candidate Starts for Kroos_73:

(1, 53728), (2, 53797), (3, 53809), (4, 53863), (Start: 5 @53938 has 15 MA's), (Start: 6 @53947 has 2 MA's), (7, 53962), (9, 54022), (10, 54025), (14, 54070), (15, 54079), (17, 54112),

Gene: Kwobi_74 Start: 54203, Stop: 54406, Start Num: 5

Candidate Starts for Kwobi_74:

(2, 54062), (3, 54074), (4, 54128), (Start: 5 @54203 has 15 MA's), (Start: 6 @54212 has 2 MA's), (7, 54227), (9, 54287), (10, 54290), (14, 54335), (15, 54344), (17, 54377),

Gene: LilHam_67 Start: 51285, Stop: 51488, Start Num: 5

Candidate Starts for LilHam_67:

(2, 51144), (3, 51156), (4, 51210), (Start: 5 @51285 has 15 MA's), (Start: 6 @51294 has 2 MA's), (7, 51309), (9, 51369), (10, 51372), (14, 51417), (15, 51426), (17, 51459),

Gene: McKinley_76 Start: 54986, Stop: 55189, Start Num: 5

Candidate Starts for McKinley_76:

(1, 54779), (2, 54848), (4, 54914), (Start: 5 @54986 has 15 MA's), (Start: 6 @54995 has 2 MA's), (10, 55079), (11, 55085), (17, 55163),

Gene: Ribeye_73 Start: 53542, Stop: 53748, Start Num: 5

Candidate Starts for Ribeye_73:

(1, 53332), (2, 53401), (3, 53413), (4, 53467), (Start: 5 @53542 has 15 MA's), (Start: 6 @53551 has 2 MA's), (8, 53584), (10, 53635), (11, 53641), (13, 53671), (16, 53716), (17, 53719),

Gene: Saronaya_75 Start: 54384, Stop: 54587, Start Num: 5

Candidate Starts for Saronaya_75:

(2, 54243), (3, 54255), (4, 54309), (Start: 5 @54384 has 15 MA's), (Start: 6 @54393 has 2 MA's), (7, 54408), (9, 54468), (10, 54471), (14, 54516), (15, 54525), (17, 54558),

Gene: SchottB_71 Start: 54005, Stop: 54208, Start Num: 5

Candidate Starts for SchottB_71:

(2, 53864), (3, 53876), (4, 53930), (Start: 5 @54005 has 15 MA's), (Start: 6 @54014 has 2 MA's), (7, 54029), (9, 54089), (10, 54092), (14, 54137), (15, 54146), (17, 54179),

Gene: StorminNorm_74 Start: 54172, Stop: 54378, Start Num: 5

Candidate Starts for StorminNorm_74:

(1, 53962), (2, 54031), (3, 54043), (4, 54097), (Start: 5 @54172 has 15 MA's), (Start: 6 @54181 has 2 MA's), (8, 54214), (10, 54265), (11, 54271), (13, 54301), (16, 54346), (17, 54349),

Gene: Tangerine_74 Start: 53678, Stop: 53881, Start Num: 5

Candidate Starts for Tangerine_74:

(2, 53537), (3, 53549), (4, 53603), (Start: 5 @53678 has 15 MA's), (Start: 6 @53687 has 2 MA's), (7, 53702), (9, 53762), (10, 53765), (14, 53810), (15, 53819), (17, 53852),

Gene: Tycho_72 Start: 53491, Stop: 53697, Start Num: 5

Candidate Starts for Tycho_72:

(1, 53281), (2, 53350), (3, 53362), (4, 53416), (Start: 5 @53491 has 15 MA's), (Start: 6 @53500 has 2 MA's), (8, 53533), (10, 53584), (11, 53590), (13, 53620), (16, 53665), (17, 53668),

Gene: YorkOnyx_74 Start: 53692, Stop: 53898, Start Num: 5

Candidate Starts for YorkOnyx_74:

(2, 53551), (4, 53617), (Start: 5 @53692 has 15 MA's), (Start: 6 @53701 has 2 MA's), (10, 53785), (11, 53791), (13, 53821), (16, 53866), (17, 53869),